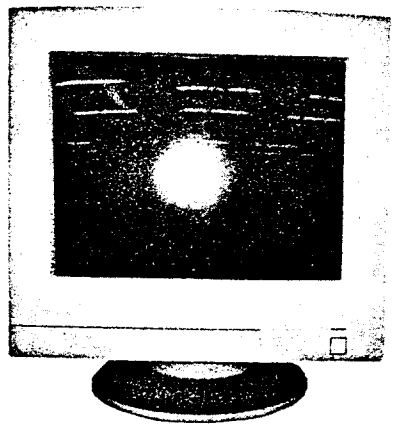
NEC

MODEL JC-1741UMA, (N)
/B/R/B(EE)
/JC-1742UMA

COLOR MONITOR MultiSync 5FG
SERVICE MANUAL

PART NO. 599910336

Better Service
Better Reputation
Better Profit



SPECIFICATIONS

A. Electrical Description

Picture tube	17" Flat Square CRT 16 Visual inches diagonal 90 degree deflection, 0.28mm dot pitch Dot type black matrix, Medium-short persistence phosphor, Dark bulb, High contrast, Anti-static coating, Invar shadow mask.	
Input Signal	Video	: Analog 0.7Vp-p 75Ω Positive
	Sync	: Separate sync TTL Level
		Horizontal sync Positive/Negative
		Vertical sync Positive/Negative
		: Composite sync TTL Level Positive/Negative
		: Composite Sync on green Video sync 0.3Vp-p Negative (Video 0.7Vp-p Positive)
Display Colors	Analog Input : Unlimited colors	

Synchronization	Horizontal	: 27kHz to 79kHz (Automatically)
	Vertical	: 55Hz to 90 Hz (Automatically)
Resolution	Horizontal	: 1280 dots.
	Vertical	: 1024 lines (non-interlaced)
Video Bandwidth	D-SUB	: 75MHz, BNC : 135MHz
Active Display Area	Horizontal	: 290mm (Active display area is chevnged by signal timing)
	Vertical	: 217mm
Active Display area Fullscan	Horizontal	: 316mm
	Vertical	: 237mm
Misconvergence	Less than 0.5mm around perimeter less than 0.3mm at center	
Power Consumption	JC-1741UMA/B/R/B (EE)/JC-1742UMA 155W	
Power Supply	JC-1741UMA/JC-1742UMA AC 120V, 60Hz	
	JC-1741UMB/R/B (EE) AC220-240V,50/60Hz	
Current Rating	JC-1741UMA 2.6A/JC-1741UMB, R, B (EE) 1.6A	
	JC-1742UMA 2.6A	
Environmental Considerations	Operating	Temperature 0°C to +35°C
		Humidity 30% to 80%
	Storage	Temperature -20°C to 60°C
		Humidity 10% to 90%

NOTE: The avobe specifications are subject to change without notice for further improvement.

NEC Corporation
TOKYO, JAPAN

JC-1742UMA : Generic OEM Version

Part list differences between JC-1741UMA and JC-1742UMA

ITEM	JC-1741UMA		JC-1742UMA	
	Part Number	Description	Part Number	Description
CRT	33017501	Polish	33017502	Silica coating
User's Manual	78126002	NEC Branded FG Series	78126651	No Brand Generic
Template	78652201	NEC Branded FG Series	78652361	No Brand Generic
Monitor question-naire	78034298		————	Delete
Monitor sales office list	78034406		————	Delete
FG-ACC-P	79692941	AccuColor Demo disk PC	————	Delete
FG-ACC-M	79692951	AccuColor Demodisk MAC	————	Delete
CARTON BOX	25825071	NEC Branded FG Series	25826431	No Brand Generic
CABINET FRONT ASSY	25313911	NEC Logo	25315681	No Logo
REAR LABEL (720N)	25775061	JC-1741UMA	25776751	JC-1742UMA

INTRODUCTION TO THE MULTISYNC FG COLOR MONITOR

The MultiSync 5FG monitor allows you to "plug and play"; the MultiSync technology provides you with automatic compatibility with multiple operating platforms and a vast array of graphics standards allowing resolution upgrades without upgrading the monitor.
The larger 17", high contrast, flatter screen offers improved clarity and enhanced color and image quality.
ColorControl allows you to adjust the colors on your screen to exactly what you want. Thus eliminating misrepresentations and frustration.
The MultiSync 5FG monitor strictly follows ErgoDesign guidelines. ErgoDesign describes a philosophy governing the design of the MultiSync monitors. The goal of ErgoDesign is to maximize the comfort and productivity of the end user.

FEATURE HIGHLIGHTS

MULTIPLE FREQUENCY TECHNOLOGY

The multiple frequency technology automatically adjusts the monitor to the video card's scanning frequency thus displaying the resolution you require. The MultiSync FG also supports multiple operating platforms including IBM compatible and Macintosh family systems.
Increased resolution adds to the image clarity, and the MultiSync 5FG monitor provides a wider range of higher resolutions to meet your needs for now and in the future.
A Wide Range of Graphics Standards is displayable by the MultiSync 5FG monitor including:

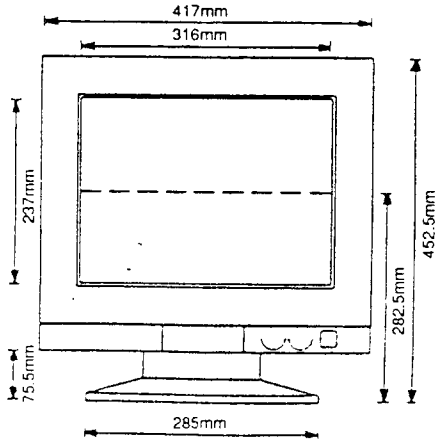
- VGA at 640X480 at 60 and 72 Hz
- SuperVGA at 800X600 56, 60, 70 and 72Hz
- MAV II at 640X 480 66.7 Hz
- 8514/A at 1024X768 Interlaced
- XGA at 1024X768 Interlaced
- 1024X768 Non-Interlaced 60, 70, 75 and 80 Hz
- 1280X1024 Non-Interlaced 60, 70 and 74 Hz

SCREEN TECHNOLOGY

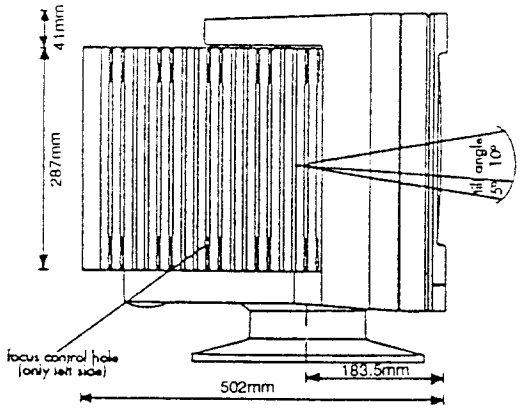
A High contrast Tube with a 0.28 mm dot pitch increases the clarity and displays greater detail. Good clarity allows your eyes to flow over the screen image and more easily absorb the information.
The Flatter Screen of the MultiSync 5FG monitor reduces distortion of your image, and reduces reflections.
Increased Brightness provides higher contrast and more vivid colors.

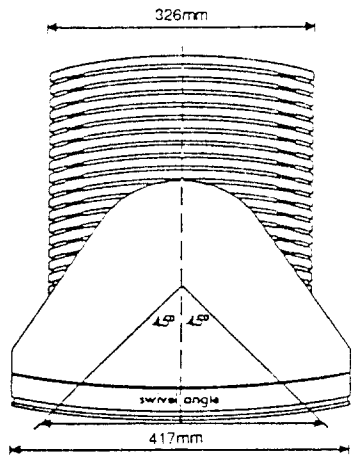
MECHANICAL DESCRIPTION

1. Cabinet — Molded plastic cabinet with tilt swivel base.
2. Dimensions — 417 (W) X 452.5 (H) X 502 (D) mm



3. Tilt Swivel Range





4. Weight — 25.5kg

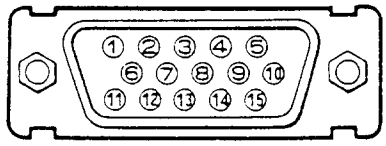
5. Controls
   - Power Switch
   - Brightness Control
   - Contrast Control
   - Color Switch
   - Sync Switch
   - H Size Increase, H Size Decrease
   - H Position Left, H Position Right
   - V Size Increase, V Size Decrease
   - V Position Up, V Position Down
   - Memory Recall Button
   - Mode Status LED
   - Degauss Switch

6. Input Signal Terminal
   - Mini D-SUB 15P Connector (FEMALE)
   - D-SUB 15P Connector (FEMALE)
   - BNC Connector (FEMALE)
   - (See Page 4 for Pin Assigmments)

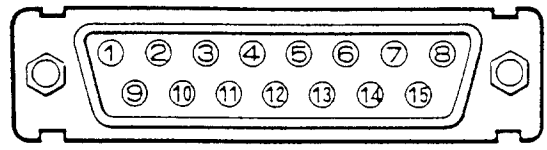
PIN ASSIGNMENT TABLE

D-SUB INPUT

MINI D-SUB 15P

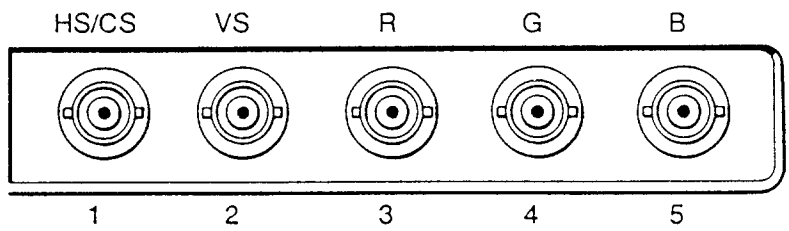


D-SUB 15P



Pin No.	VGA, 8514/A & XGA VGA/8514 Mini D-Sub 15P	Macintosh with Adapter D-SUB 15P
1	RED	GOUND
2	GREEN	RED
3	BLUE	H SYNC, H/V SYNC
4	GROUND	GROUND
5	GROUND (SELF TEST)	GREEN
6	GROUND	GROUND
7	GROUND	RESERVED
8	GROUND	N.C.
9	N.C.	BLUE
10	GROUND	N.C.
11	GROUND	GROUND
12	RESERVED	V SYNC
13	H SYNC	GROUND
14	V SYNC	GROUND
15	N.C.	N.C.

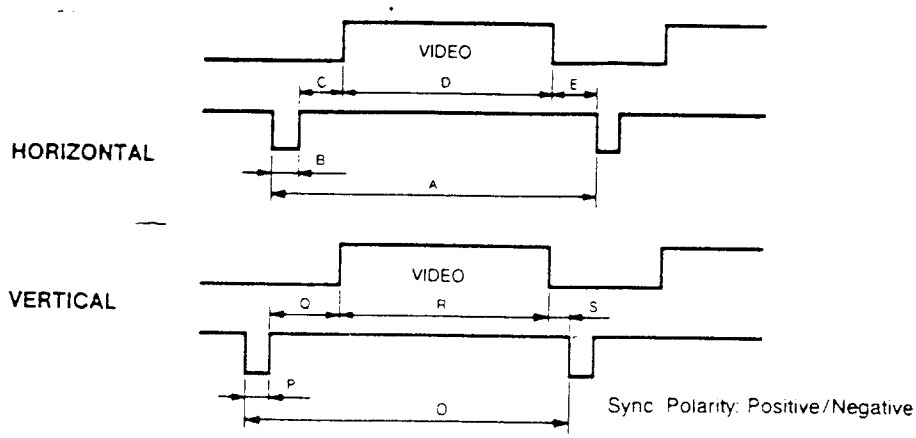
BNC INPUT



SIGNALS PIN- ASSIGNMENTS	SEPARATE SYNC	COMPOSITE SYNC	SYNC ON GREEN
1	H SYNC	H/V COMP SYNC	—
2	V SYNC	—	—
3	RED	RED	RED
4	GREEN	GREEN	GREEN WITH SYNC
5	BLUE	BLUE	BLUE

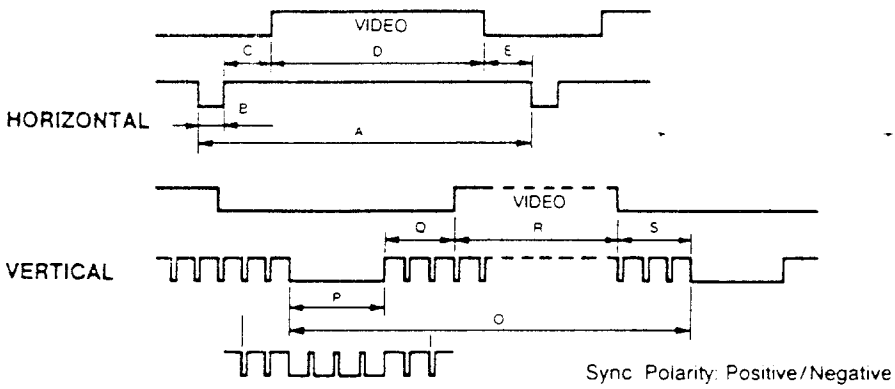
TIMING CHARTS

SEPARATE SYNC



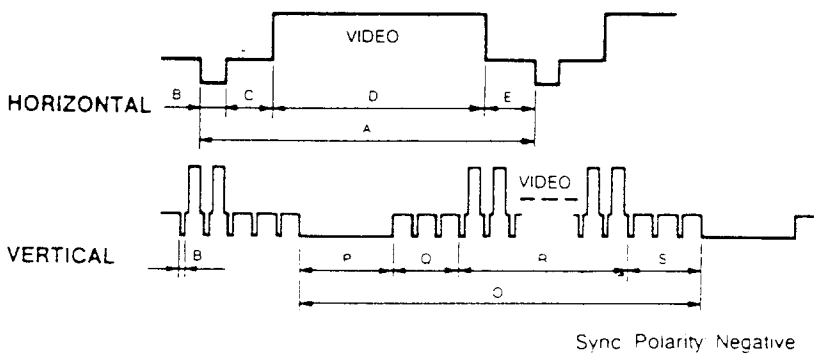
Sync Polarity: Positive/Negative

COMPOSITE SYNC



Sync Polarity: Positive/Negative

COMPOSITE SYNC AND VIDEO (SYNC ON GREEN)

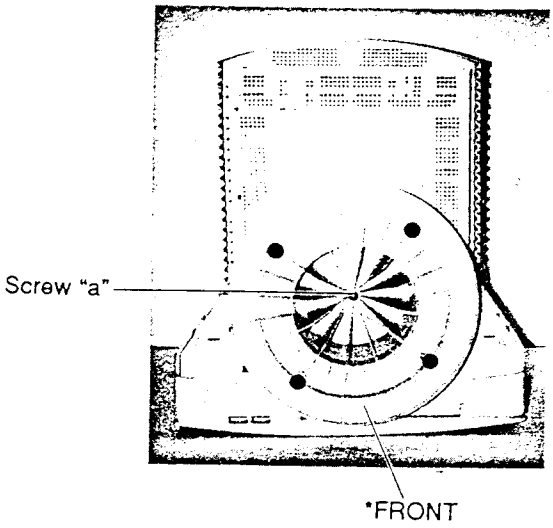


Sync Polarity Negative

PRESET TIMING

	VGA/MCGA compatible			8514/A	Macintosh -II	800X600 at 56 Hz	800X600 at 72 Hz	1024X768 at 60 Hz	1024X768 at 70 Hz	1280X1024 at 60 Hz	1280X1024 at 74 Hz
f_H kHz	31.47			35.52	35.00	35.16	48.09	48.36	56.48	64.31	78.6
A µs	31.78			28.15	28.57	28.44	20.79	20.68	17.71	15.55	12.68
B µs	3.81			3.92	2.12	2.00	2.399	2.09	1.813	0.97	1.07
C µs	1.91			1.25	3.17	3.56	1.279	2.46	1.92	2.23	1.90
D µs	25.42			22.8	21.16	22.22	15.99	15.75	13.65	11.96	9.48
E µs	0.64			0.18	2.12	0.67	1.119	0.369	0.32	0.369	0.24
f_V Hz	70.09		59.94	86.96	66.67	56.25	72.01	60.00	70.07	60.38	74.11
0 ms	14.27	14.27	16.68	11.5	15.00	17.78	13.89	16.67	14.27	16.56	13.49
P ms	0.06	0.06	0.06	0.113	0.09	0.06	0.124	0.124	0.106	0.047	0.038
Q ms	1.91	1.11	1.05	0.563/0.5	1.11	0.63	0.479	0.6	0.513	0.498	0.496
R ms	11.12	12.71	15,25	10.81	13.71	17.07	12.51	15.88	13.60	15.923	12.985
S ms	1.18	0.38	0.32	0/0.014	0.09	0.03	0.772	0.062	0.053	0.093	0.0
Remarks	Analog Video	Analog Video	Analog Video	Analog Video interlaced	Analog Video	Analog Video	Analog Video	Analog Video	Analog Video	Analog Video	Analog Video

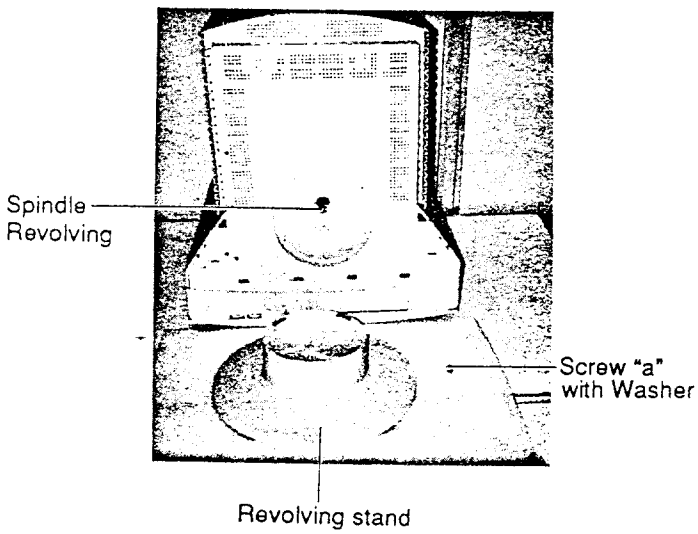
THE METHOD FOR REMOVING THE TILT SWIVEL BASE



1. Turn the monitor CRT face down as shown. (Top VIEW)

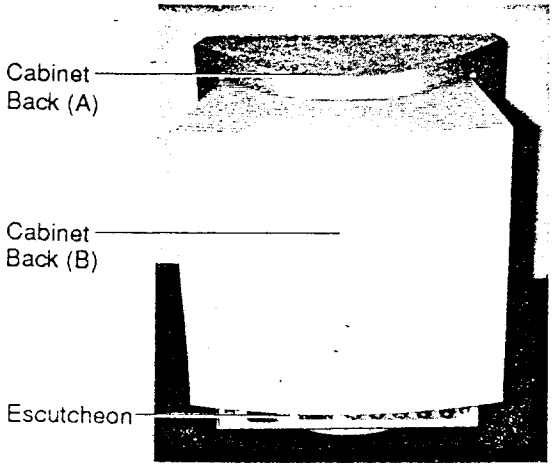
2. Remove the screw "a" with washer, then remove the revolving stand from the display.

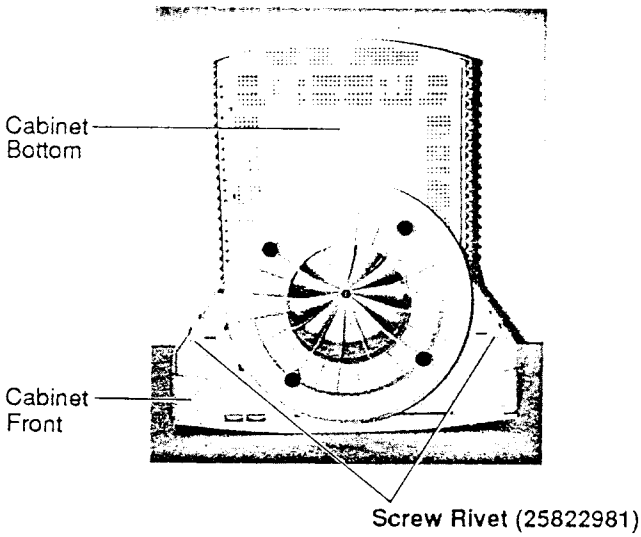
* Move the revolving stand so that the "FRONT" mark is aligned with the cabinet side.



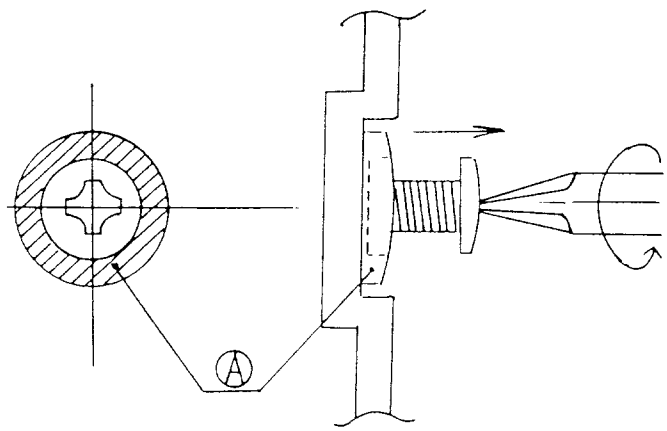
3. The removable parts consist of a display, revolving stand, spindle revolving, and screw "a" with washer as shown.

DEF PWB ASSY DISASSEMBLY





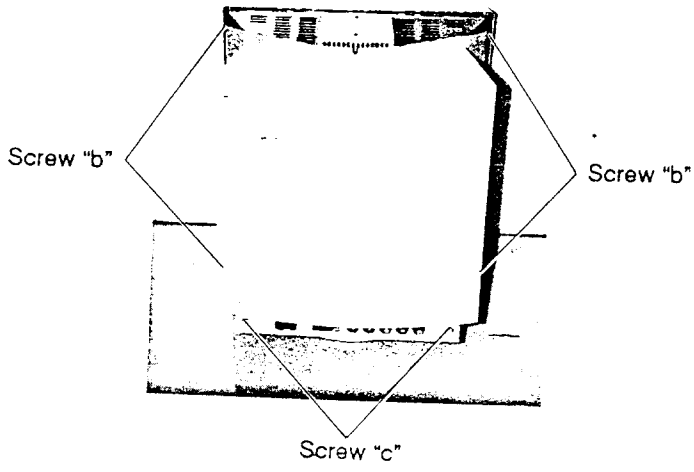
1. Turn the monitor CRT face down as shown. (Top VIEW)



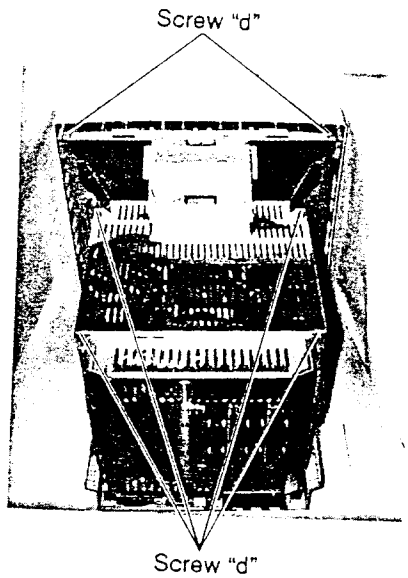
2. Remove to screw rivets from the CABINET BACK (A).
   ①. Keep hold to part Ⓐ of screw rivet by finger then remove the screw.
   ②. Remove the screw rivet after remove the screw.

   NOTE: When remove the screw rivet it otherwise screw rivet are damaged.

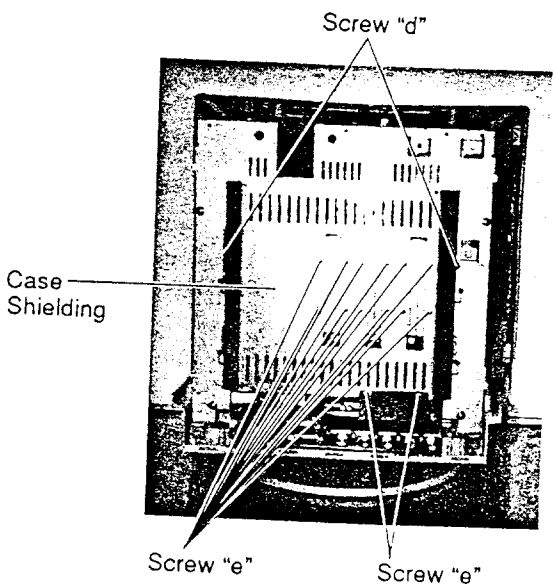
3. Remove the CABINET BACK (A).



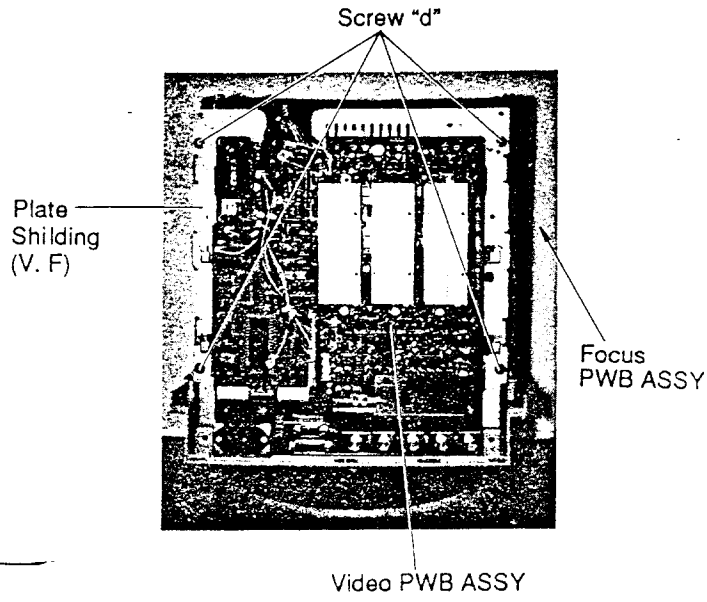
3. Place the monitor on its base as shown.
   Remove the four screws "b" from the CABINET BACK (B).
   Remove the two screws "c" from the CABINET BACK (B) and remove the CABINET BACK (B).



4. Remove the five screws "d " from the case, shielding (TOP), and remove the case, shielding (TOP).

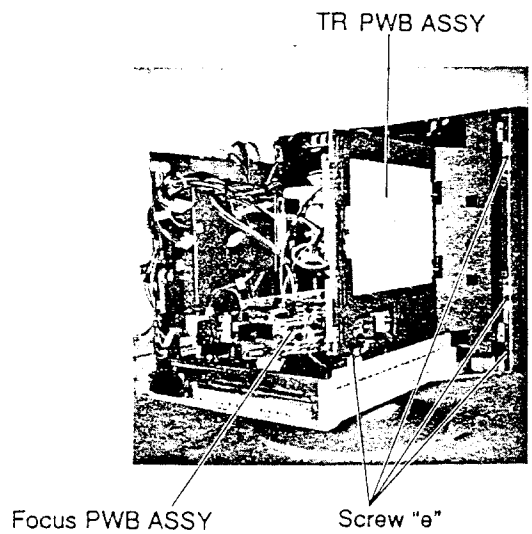


5. Remove the two screws "d" from the case shielding.
   Remove the twelve screws "d" from the case, shielding and remove the case, shielding.

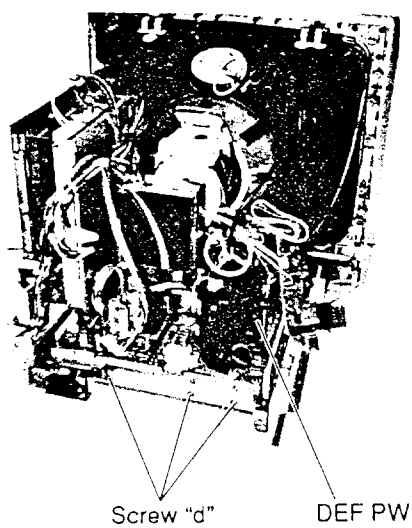


6. Remove the Focus PWB ASSY from the BRACKET (PWB)>

   Disconnect the connectors.
   Remove the four screws "d" from the Plate Shielding (V. F) and remove the Plate Shielding (V. F) (with the TR PWB ASSY).

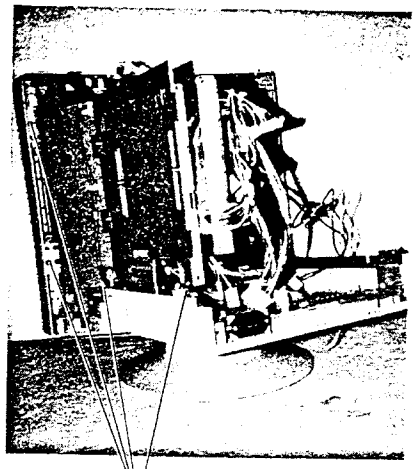


7. Remove the four screws "e" from the Side Chassis (L) and remove the Side Chassis (L) (with the TR PWB ASSY).



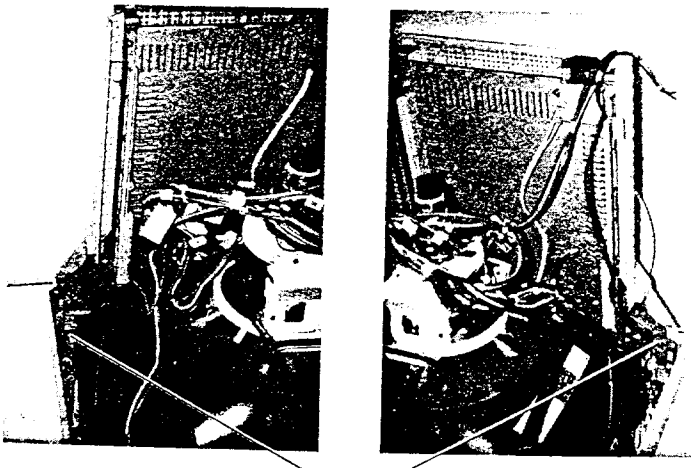
8. Remove the Anode cap from CRT.
   Disconnect the CRT PWB ASSY.

   Remove the three screws "d" from the BRACKET (PWB) and remove the DEF PWB ASSY.



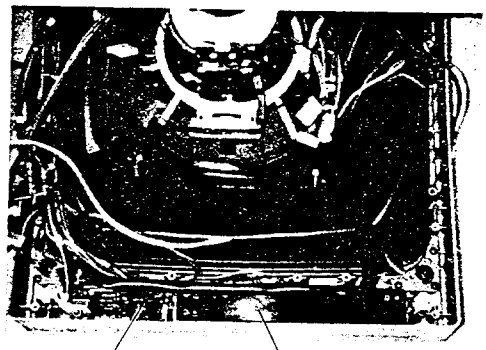
Screw "e"

9. Remove the four screws "d" from the Side Chassis (R) and remove the Side Chassis (R) (with the SW REG PWB ASSY).



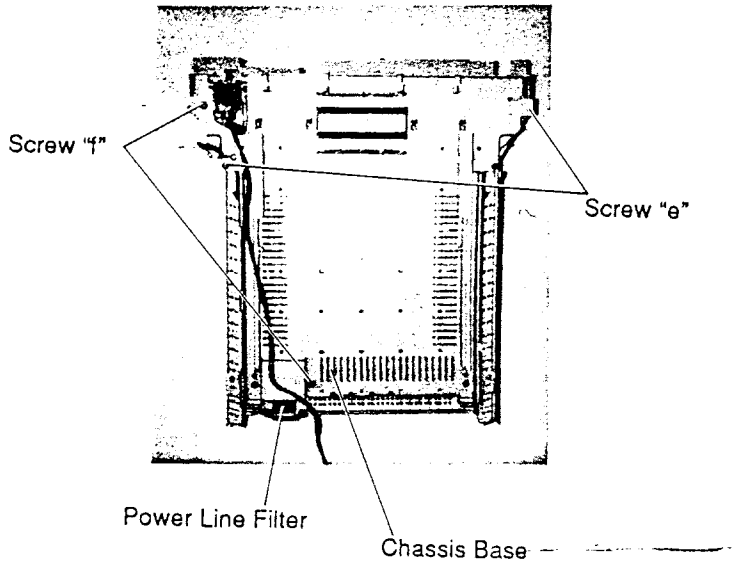
Screw "e"

10. Remove the three screws "e" from the CABINET BOTTOM and remove the CABINET BOTTOM.

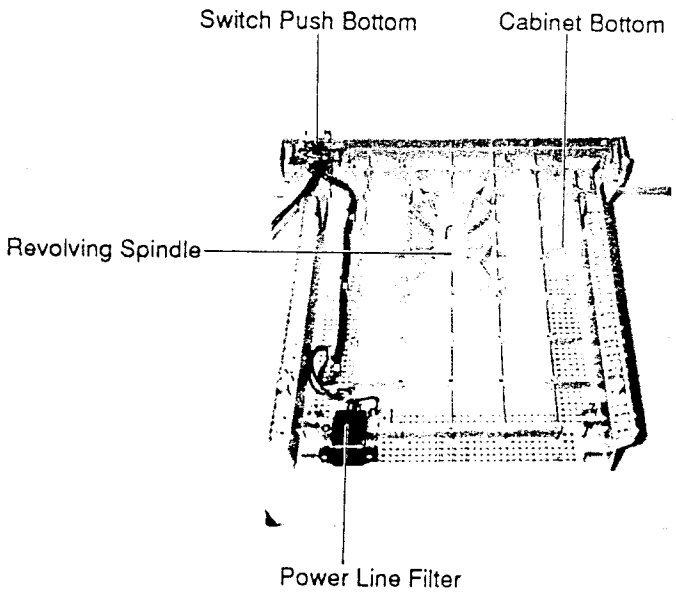


VR PWB

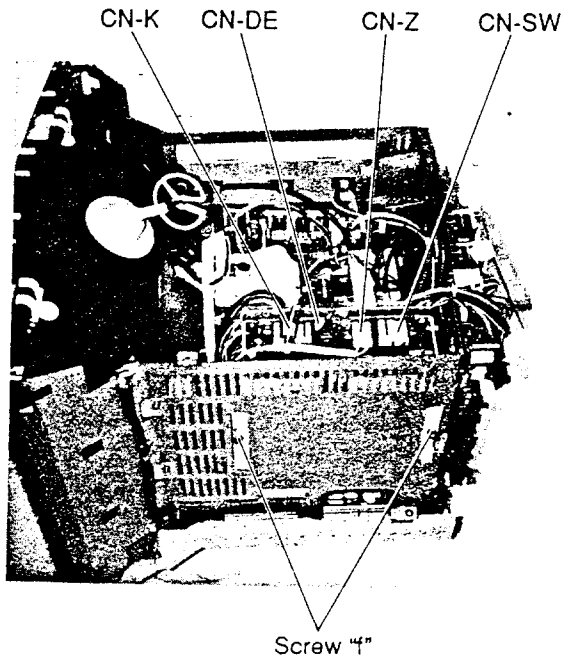
Control PWB (Under the PWB GUIDE)



11. Remove the two screws "e" from the chassis base.
Remove the two screws "f" from the chassis base and remove the chassis base.



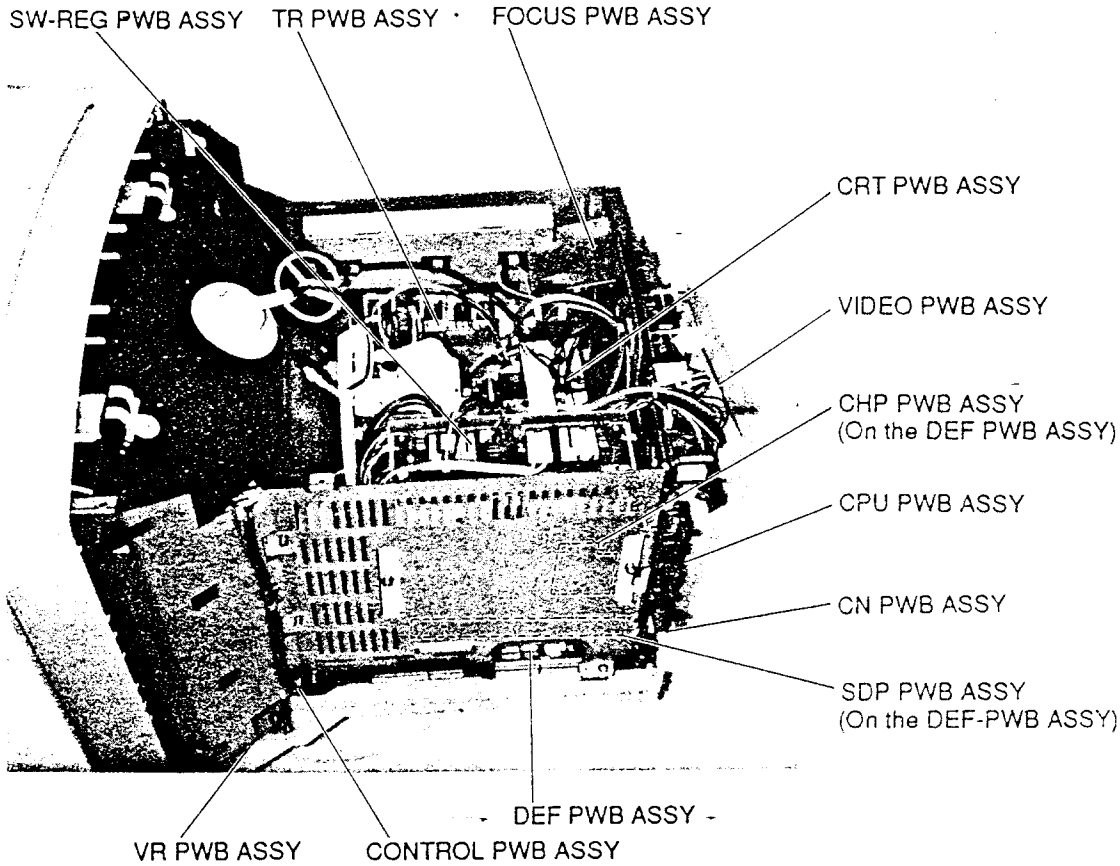
SW REG UNIT DISASSEMBLY



1. Disconnect the connector.
2. Remove the two screws "f" and lift the SW REG UNIT.

BORAD LAYOUT

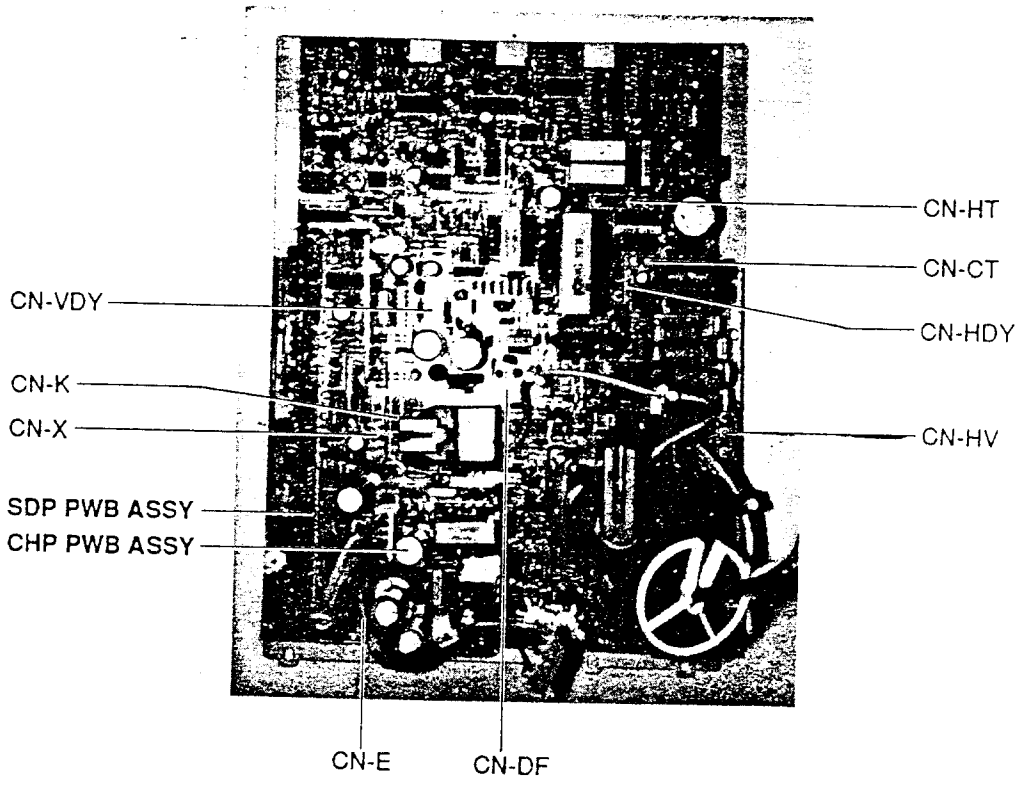
PART LOCATION BORAD LAYOUT



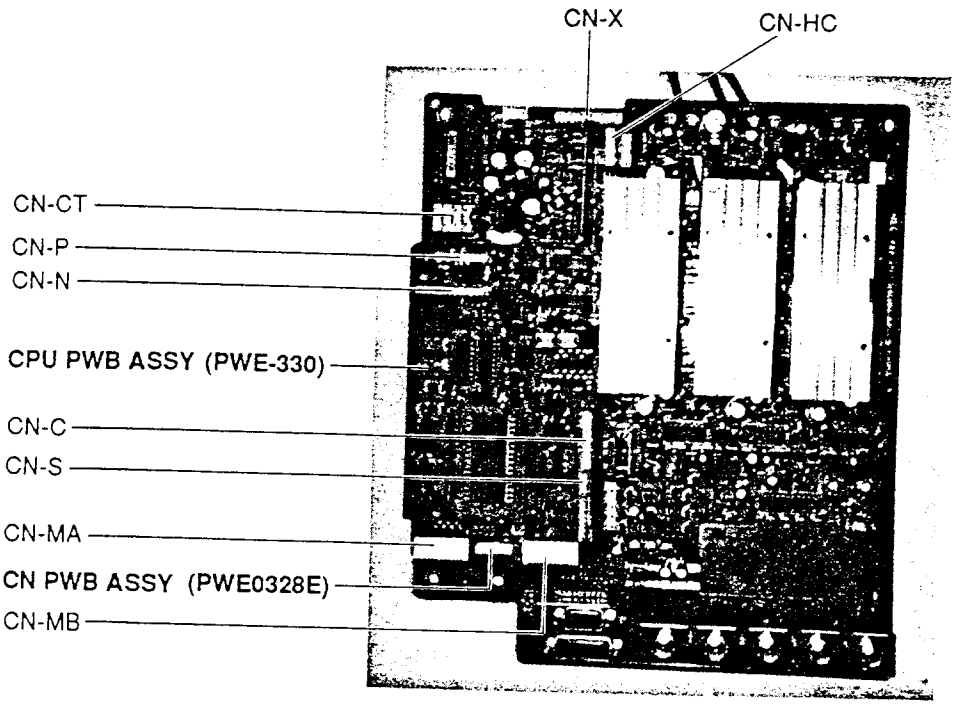
BOARDS

SW REG PWB ASSY (UMB/R/B (EE))	PWE-319
SW REG PWB ASSY (UMA)	PWE-341
DEF PWB ASSY	PWE-329
SDP PWB ASSY	PWE-339A
CHP PWB ASSY	PWE-339B
VIDEO PWB ASSY	PWE-331
CPU PWB ASSY	PWE-330
FOCUS PWB ASSY	PWE-328A
CRT PWB ASSY	PWE-328B
CONTROL PWB ASSY	PWE-328C
VR PWB ASSY	PWE-328D
CN PWB ASSY	PWE-328E
TR PWB ASSY	PWE-332

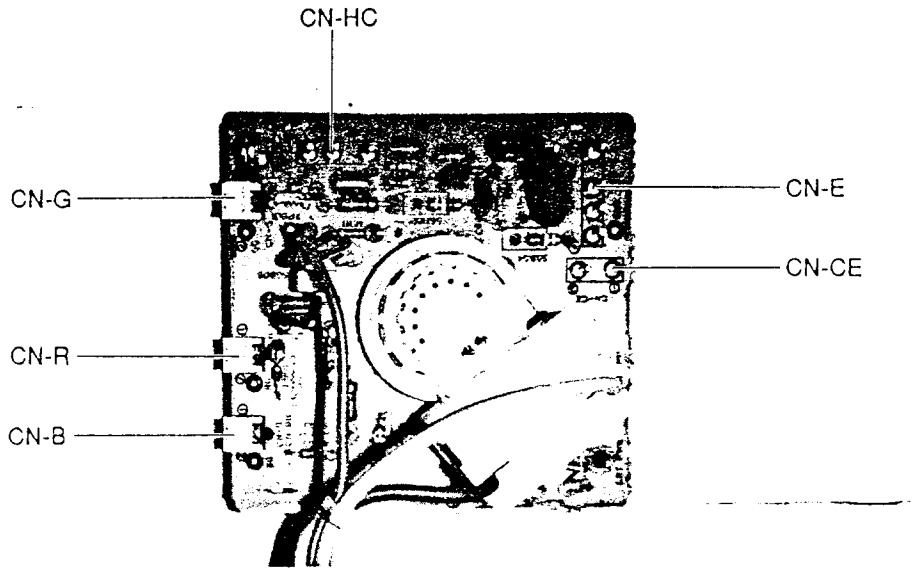
CONNECTORS



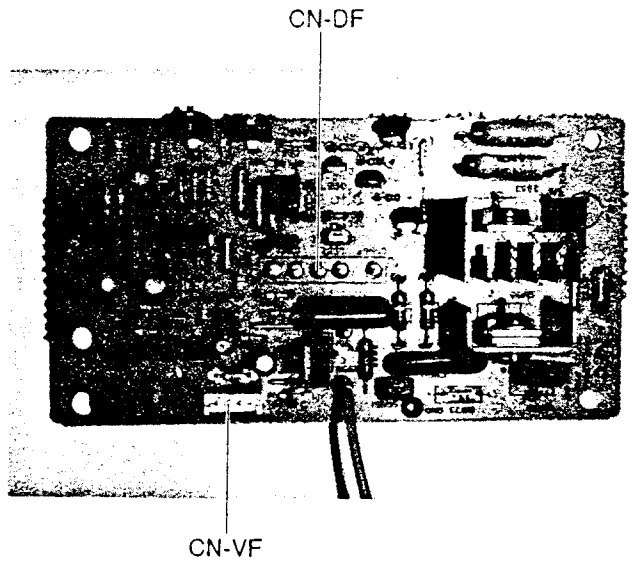
DEF PWB ASSY (PWE-329)



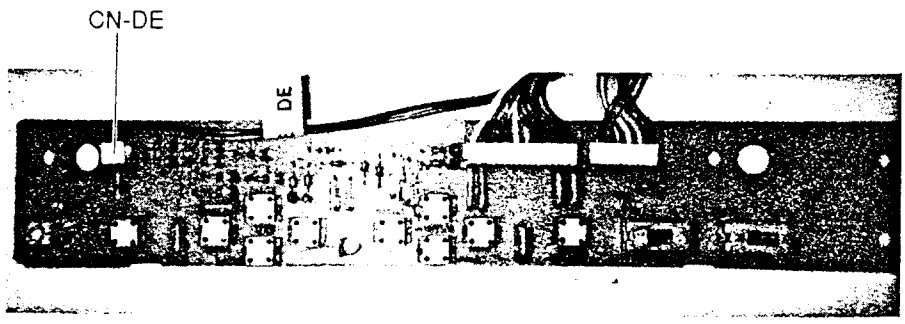
VIDEO PWB ASSY (PWE-331)



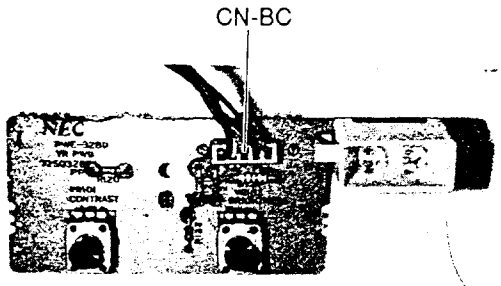
CRT PWB ASSY (PWE-328B)



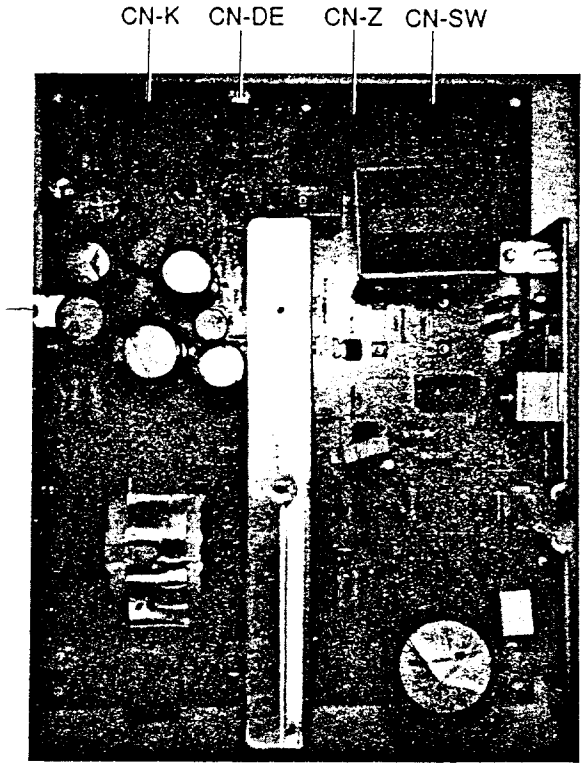
FOCUS PWB ASSY (PWE-328A)



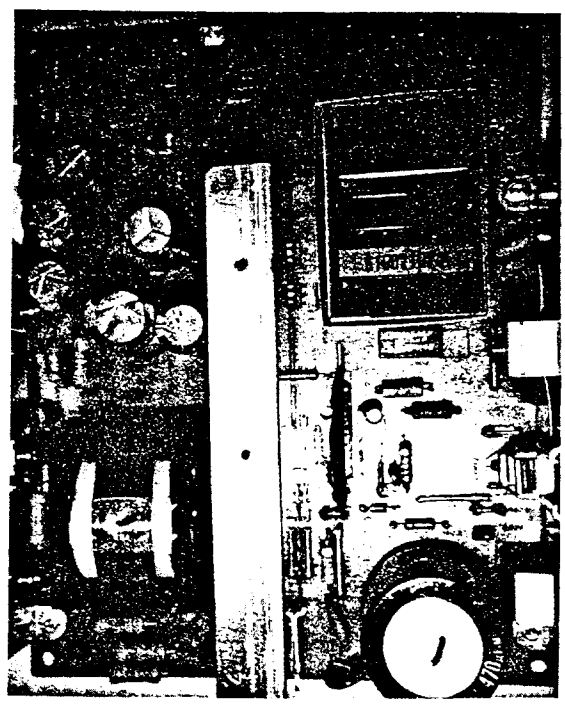
CONTROL PWB ASSY (PWE-328C)



VR PWB ASSY (PWE-328D)



SW REG PWB (UMA)



SW REG PWB (UMB/R/B (EE))

ADJUSTMENT PROCEDURE

See pages 31 and 32 for jig

Standard Adjustment Conditions

1) Power source voltage : JC-1741UMA AC120V, 60Hz/JC-1741UMB, R, B(EE) AC220V, 50Hz
2) Warm up : Adjust after leaving power on for a minimum of thirty minutes
3) Signals :
   Video : Analog 0.7Vp-p 75 terminal positive polarity
   Analog sync on green
   Video : 0.7Vp-p
   Synchronizing : 0.3Vp-p
   Sync : TTL level Negative/Positive polarity
   Separate/composite
   Deflection frequency : H 27kHZ~79kHZ
   V 55Hz~90Hz

   Unless otherwise specifid, to connect signal IO to D-SUB 15 pin then perform adjustments.

1. Adjustment (Production Line Procedure)
   1) Initial Setting
      The following VRs should be turned on after setting them in the specified position upon turning on the power.
      a) DEF PWB
         VR590 (H SIZE) : Fully counterclockwise (MIN)
         VR5D1 (H V ADJ 1) : Fully counterclockwise (MIN)
         VR5E1 (H V ADJ 2) : Fully counterclockwise (MIN)
         VR56A (H HOLD 1) : Mechanical center
         VR56E (H HOLD 2) : Mechanical center
         VR56C (H HOLD 3) : Mechanical center
         VR2001 (HV PROTECTOR) : Fully counterclockwise (MIN)
         VR461 (18V ADJ) : Fully counterclockwise (MIN)
         VR411 (V BIAS) : Mechanical center
         Screen : Fully counterclockwise (MIN)
         VR401 (V HOLD) : Mechanical center
         SW401 (CUT OF ADJ) : To the left (OPEN)
      b) Video PWB
         VR8A1 (12V ADJ) : Mechanical center
         VR861 (13V ADJ) : Fully counterclockwise (MIN)

2. Pre-adjustment of DEF PWB (Production Line Procedure)
   1) 18V Adjustment
      a) Connect 29V power.
      b) Adjust TP471 (18V) until it becomes 18V±0.05V DC using VR461.
         * Care should be taken to ensure that TP471 (18V) does not exceed 20V.

3. Pre-adjustment of Video PWB (Production Line Procedure)
   1) 12V Adjustment
      a) Apply +29V±0.1V DC between X3 (+29V) and X6.
      b) Apply H Sync (signal 12.56kHz) to X4.
      c) Apply a load in excess of 200±10% 5W between HC2 and HC3.
      d) Adjust TP-12V until it is 12V±0.05V DC using VR8A1. (12V ADJ)

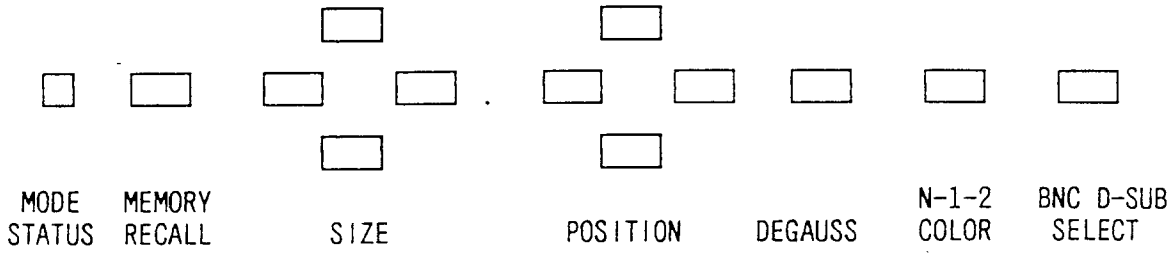
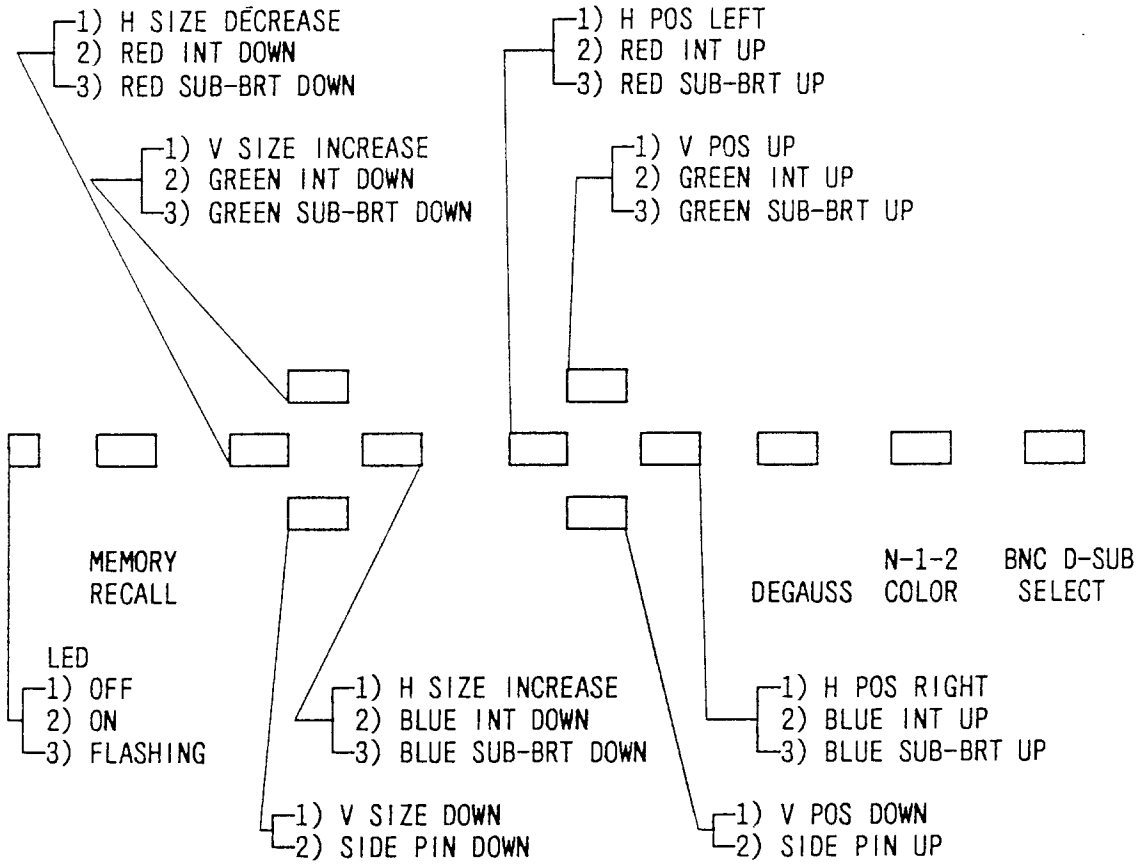


Fig.1-a Control panel



NOTE 1): USER CONTROL LEVEL 1
2): USER CONTROL LEVEL 2
3): USER CONTROL LEVEL 3

Fig.1-b User control functions

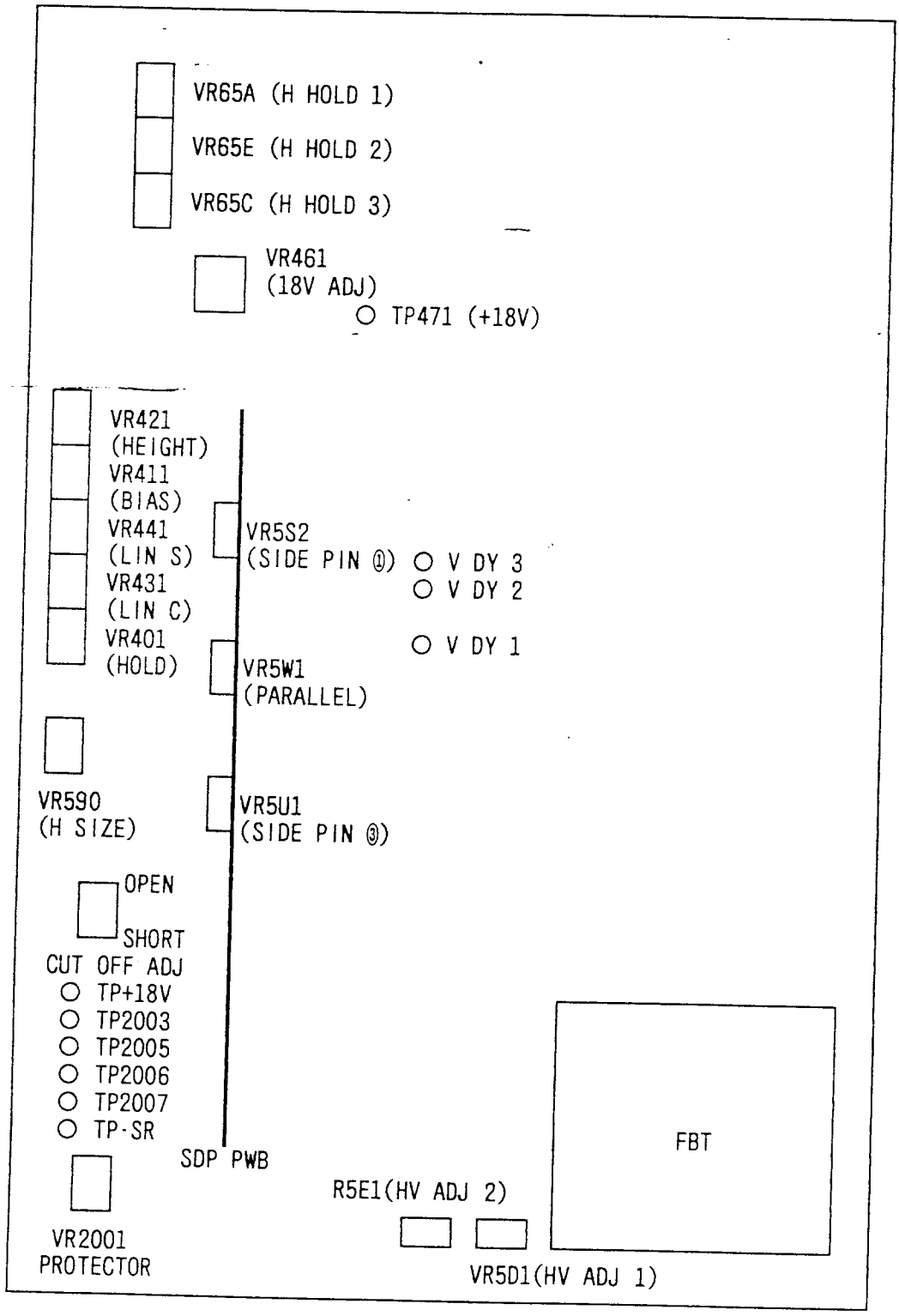


Fig. 2 DEF PWB Layout

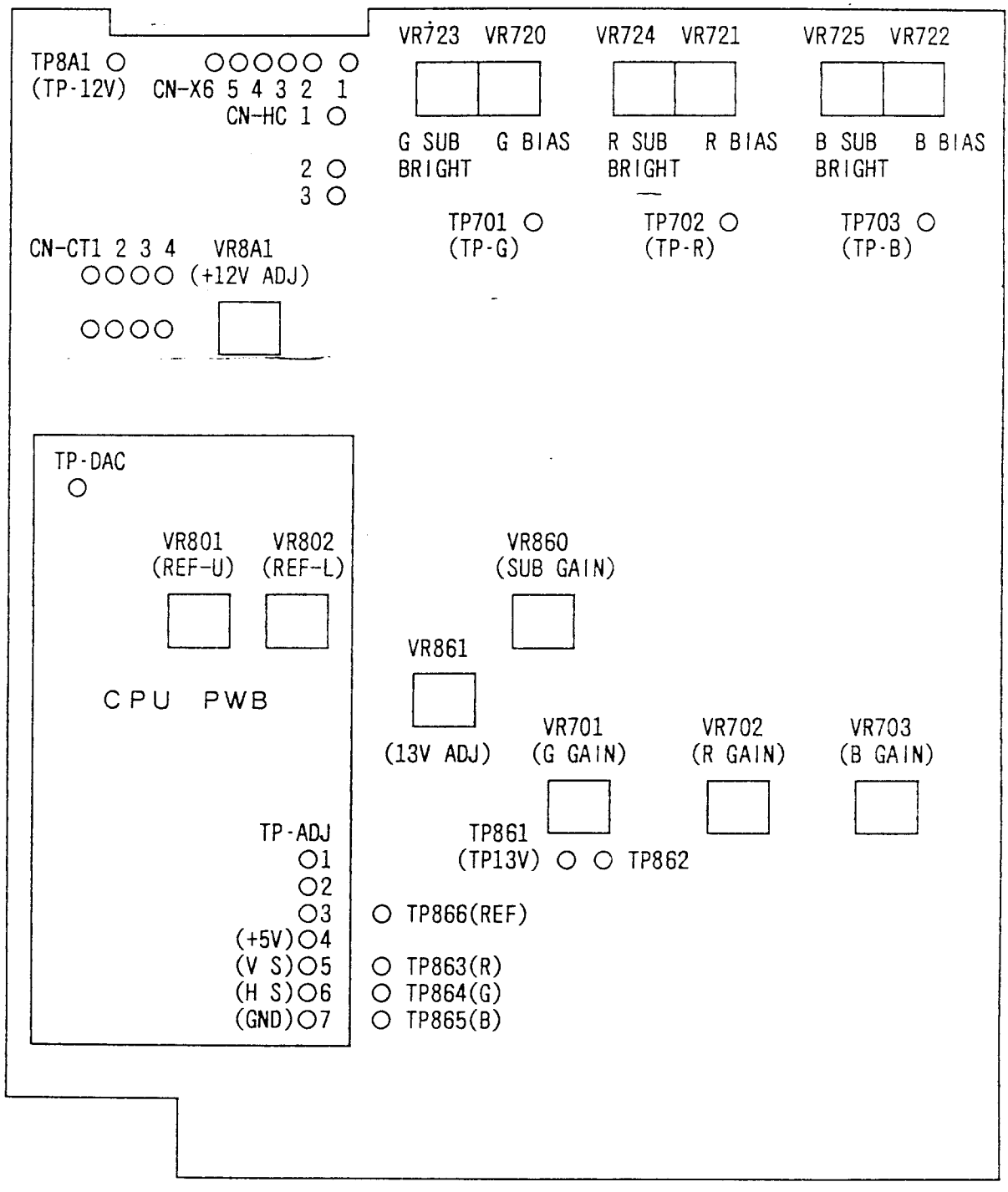


Fig.3 VIDEO PWB Layout

4. Main Adjustment (Service adjustment)

1) Controls Setting

Unless otherwise specified, make adjustments with the following settings :

VR101 CONTRAST VR : MAX (fully counterclockwise)
VR102 BRIGHTNESS VR : Position at which the back raster dose not rise
SW111 BNC/D-SUB SW : D-SUB
SW112 COLOR MODE SW : N
SW701 SYNC SW : OFF (Lower position)

2) 13V Adjustment Signal 2 27kHz

a) Adjust TP861 (TP-13V) to 13±0.1V DC using VR861.

3) DAC Reference Voltage Adjustment Signal 2,3

a) Receive signal 3 (79.0kHz).
b) Adjust TP-DAC (H-f/V output) voltage to 11.00±0.05V DC using VR801.
C) Receive signal 2 (27kHz).
d) Adjust TP-DAC (H-f/V output) voltage to 1.00±0.05V DC using VR802.

4) V HOLD Adjustment

a) Short pin ⑤ of TP-ADJ (V S) with pin ⑦ (GND) of TP-ADJ on the CPU PWB.
b) Adjust V DY 1 to 40±0.5Hz using VR401 (V HOLD).
c) Release short pin ⑤ of TP-ADJ with pin ⑦ of the same.

5) Horizontal Free Run Adjustment

a) Short pin 6 of TP-ADJ with pin ⑦ (GND) of TP-ADJ on the CPU PWB.

b) Receive signal 1 (64.3kHz) and adjust VR56A (H HOLD 1) so that there is one image.
C) Receive signal 2 (44.0kHz) and adjust VR56E (H HOLD 2) so that there is one image.
d) Receive signal 3 (31.5kHz) and adjust VR56C (H HOLD 3) so that there is one image.
e) Short pin ⑥ of TP-ADJ with pin ⑦ (GND) of TP-ADJ.

6) High Voltage Adjustment (Production Line Procedure) Signal 2 27kHz

a) Receive the all black image.
b) Turn brightness VR, contrast VR and the screen VR fully counterclockwise.
c) Turn VR5D1 (H V ADJ 1) to adjust high voltage to 24.0±0.3kV.
d) Turn VR5D1 (H V ADJ 2) to adjust high voltage to 25.0±0.3kV.
* When adjusting VR501, turn VR5E1 fully counterclockwise (MIN).

NOTE: After adjusting VR5D1 and VR5E1, seal these caps (74004891) with silicone glue to meet DHHS requirements.

7) High Voltage Protector Adjustment (Production Line Procedure) Signal 2 27kHz

a) Receive the all black image.
b) Turn the brightness VR and contrast VR fully counterclockwise (MIN).
C) Turn VR2001 (protector) to adjust the voltage between TP2006 and TP2007 to ±0.05V.

NOTE: After adjusting VR2001, seal the cap (74004891) with silicon glue to meat DHHS requirements.

8) Horizontal Raster Centering Adjustment Signal 12

a) Receive the all black image.
b) Adjust both the screen VR and the BRIGHTNESS VR so that the back raster is visible.
c) Replace the CN-CT connector to center the image on the CRT.

CT-1 Do not move.
CT-2 Move about 3mm.
CT-3 Move about 6mm.
CT-4 Move about 10mm.

* The direction moves to the right or to the left depending upon placement of the connector insertion.
* Precise adjustment can be made by increasing the raster size fully to the bezel or CRT display area. (Raster size < CRT display areas.)

9) Horizontal Width Adjustment Signal 15

a) Receive signal 15 (78.8kHz), all white raster pattern.
b) Adjust the vertical amplitude to about 220mm with the V SIZE SWITCH (user control).
* When the vertical amplitude cannot be adjusted to 220mm, make adjustment by using VR421 (V HEIGHT).
Also, make corase adjustment of side pin distortion using VR5S2 (side pin).
c) Set the horizontal amplitude to MAX position with the H SIZE SWITCH (user control).
d) Adjust the horizontal image size fully to the bezel (316mm±3mm) using VR590 (H SIZE VR).

10) Side Pin Adjustment Signals 5, 8, 11, 12, 13, and 15

* The user control level must be 1.
(Make sure that the mode status LED is off.)
a) Short TP-ADJ pins ① and with pin ④ and push MEMORY RECALL SWITCH for two seconds.
b) Release the short between TP-ADJ pins ① and ④ and of TP-ADJ and receive signal 12, all white raster pattern.
c) Adjust the vertical image size to about 217mm with the V SIZE SWITCH (user control) and VR421 (V HEIGHT) and the horizontal image size to about 290mm with the H SIZE SWITCH (user control).
d) Adjust the side pin distortion to within 1mm using VR5S2 (side pin ①).

* When the balance between left and right side pin distortion is not even, turn VR5U1 (side pin ①) until the distortion is even on both sides to the image.
e) Receive signals 5, 8, 11, 13, and 15 and adjust the image size to nearly free set size. Then, check to be sure that pin distortion is within 1mm (-1mm < X).
f) Make the following adjustment for the signals whose pin distortion is not set to within 1mm.
g) Short TP-ADJ pins ③ and ④.
h) Push the H POS RIGHT SWITCH while holding the degauss switch to adjust the user control level 2. (The mode status LED lights.)
i) Adjust the pin distortion of each signal to below 1mm using the side pin UP/DOWN SWITCH and push MEMORY RECALL SWITCH for two seconds.
j) Release the short between TP-ADJ pin ③ and ④.
K) Push the V POS UP SWITCH while holding the degauss switch to put the user control level back to 1.

11) Image Distortion Adjustment
   a) Adjust VR5W1 (Parallel) to the mechanical center.
   b) Receive the crosshach pattern of signal 12.
   c) Turn VR5W1 until the vertical and horizontal lines crisscross each other at 90° in the screen's center.
      * Care should be taken as the image size and image distortion adjustment mutually affect each other.
      CAUTION : Because signals 11, 12, 13, and 14 mutually affect one another, check repeatedly.

12) Vertical Bias Adjustment Signal 13
   a) Receive signal 13 (all white raster).
   b) Adjust the screen image to come to the center using the V POSI SWITCH (user control).
   c) Adjust the amplituide on the screen to 220mm±5mm using the V SIZE SWITCH.
   d) Adjust the V DY 3 to 15±0.2V DC using the VR411 (V BIAS).
      * The voltage to be used should be a RMS type.

13) Vertical Linearity Adjustment Signals 8, 9, 13
   a) Receive as crosshatch pattern of signal 13.
   b) Check to be sure that VR431 (V LIN C) is set in the mechanical center.
   c) Adjust VR441 (V LIN S) until the linearity on the upper part of the screen and that in the center become the same.
   d) Adjust the linear at the lower part of the screen and that in the center until they become the same using VR431 (V LIN C).
   e) Repeat steps c) and d) above until the linearity at the upper of the screen, that in the center, and that at the lower part of the screen become the same.
   f) Receive the crosshatch pattern of signals 8 and 9 and chech to be sure that the linearity is within ±6%.

14) Vertical Amplitude Adjustment
   a) Receive the all white raster pattern of signal 4.
   b) Adjust the V SIZE until it is set to the MAX position using the V SIZE SWITCH (user control).
   c) Adjust the amplitude on the screen until it is set fully to the bezel (237±3mm) using the VR421 (V HEIGHT).

15) Preset Adjustment (H SIZE, H POSI, V SIZE and V POSI)
   * The user control level must be 1.
     (Make sure that the mode status LED is off.)
   a) Short pins ①, ②, ③ and ④ push MEMORY RECALL SWITCH for two seconds.
      (Self-correction plug resetting)
   b) Release the TP-ADJ pin ① short.
   C) Make the following adjustment and operation of each signal given in table 1.
      I) Adjust the received screen image until it becomes the value given in table 1, using H SIZE SWITCH (user control) and V SIZE SWITCH (user control).
      II) Adjust the received screen image until a distance between the left and right bezel display screen is within 1mm in the preset screen image size, using the H POSI SWITCH (user control) and the V POSI SWITCH (user control).
      III) Push MEMORY RECALL SWITCH for two seconds.
   d) Release the short at TP-ADJ pins ②, ③, and ④.

Microcomputer preset signal and amplitude

Signal	Contents	Horizontal Width	Vertical Height
4	VGA350 31.5kHz 70Hz (Separate Sync H:Positive V:Negative)	290±2mm	217±2mm
5	VGA400 31.5kHz 70Hz (Separate Sync H:Negative V:Positive)	290±2mm	217±2mm
6	VGA480 31.5kHz 60Hz (Separate Sync H:Negative V:Negative)	290±2mm	217±2mm
7	MAC-Ⅱ 35kHz 66.7Hz (Sync on green)	290±2mm	217±2mm
8	8514A 35.5kHz 87Hz (Separate Sync interlace)	290±2mm	217±2mm
9	800*600 35kHz 56Hz (Separate Sync)	290±2mm	217±2mm
10	800*600 48kHz 72Hz (Separate Sync)	290±2mm	217±2mm
11	1024*768 MVA1024 48.5kHz 60Hz (Separate Sync)	290±2mm	217±2mm
12	1024*768 56.5kHz 70Hz (Separate Sync)	290±2mm	217±2mm
13	1280*1024 64.3kHz 60Hz (Sync on green)	275±2mm	220±2mm
15	1280*1024 78.8kHz 74Hz (Sync on green)	275±2mm	220±2mm

16) Video Size Adjustment

NOTE: Check to be sure that the video signals are as indicated below:

a) VR Initial setting

VR701~VR703 GAIN VR : Fully counterclockwise (MIN).
VR860 SUB GAIN VR : Fully counterclockwise (MIN).
VR720~VR722 BIAS VR : Fully counterclockwise (MIN).
VR723~VR725 SUB BRIGHT VR : Fully counterclockwise (MIN).
SCREEN VR : Fully counterclockwise (MIN).
VR901 (CRT PWB) SUB BIAS VR : Fully counterclockwise (MIN).

b) Sub Gain Adjustment Signal 16 (78.8kHz Window Pattern)

* Check to the be sure that the user level is 1.

I) Set the color mode switch to 1 position.
II) Turn the control VR fully clockwise (MAX) and the brightness VR fully counterclockwise.
III) On the CPU PWB short TP-ADJ pins ② and ④.
IV) Push MEMORY RECALL SWITCH for two seconds.
V) Release the short at TP-ADJ pins ② and ④.
VI) Turn VR860 fully clockwise until TP862 is 2.7±0.03V.

c) Gain Adjustment Signal 16 (78.8kHZ Window Pattern)

I) Keep the state of b).
II) Receive the window pattern of signal 1.
III) Adjust TP701 (TP-G), TP702 (TP-R), and TP703 (TP-B) on the Video PWB to 50Vp-p, using VR701 (G GAIN), VR702 (R GAIN), and VR703 (B GAIN), respectively.
IV) When 50Vp-p cannot be attained in any case, turn VR850 until the smallest size attain 50Vp-p, using VR703 (B GAIN). Then, make readjust as from step III). Make readjustment if not as set.

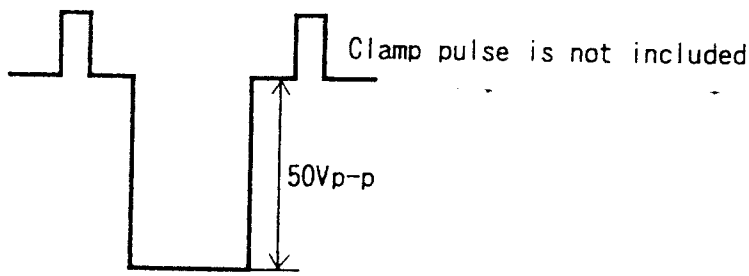


Fig.4 Waveform of TP R, G, and B

17) Cut-off Adjustment Signal 16 (78.8kHZ Window Pattern)

a) VR Initial Setting

VR720~VR722 BIAS VR : Fully counterclockwise (MIN)
VR723~VR725 SUB BRIGHT VR : Fully counterclockwise (MIN)
SCREEN VR : Fully counterclockwise (MIN)
VR901 (CRT PWB) : Fully counterclockwise (MIN)
CONTROL VR : Fully counterclockwise (MIN)
BRIGHT VR : Fully counterclockwise (MIN)

b) Receive the all black image.

c) I) Short TP863, TP864, TP865, and TP866. (Use the specified jig)
II) Short SW401 (DEF PWB) to the right side (short). Perform I) and II) in the order mentioned.

d) Adjust screen VR so that TP901 equals 650Vdc. (The digital multimeter should have an internal resistance greater than 1000 MΩ, and a voltage rating of 1.5kV or better.)

e) As VR901 (SUB BIAS VR) is gradually turned clockwise, a signal horizontal color line will appear. This line is the reference color for the cutoff adjustment. If VR901 is turned fully clockwise and no line appears, continue on with step f).
f) Turn the BIAS VRs for non-reference color until a white line is formed. If the reference color cannot obtained in step e), turn the three BIAS VRs clockwise and form a white line.
g) Set SW401 to the left (open).
(Keep TP863, TP864, TP865 and TP866 shorted.)
NOTE: Perform this step in as dark a place as possible for ease of cutoff adjustment.

18) Cut-off Fine Adjustment (Contrast Tracking) Signal 16 (78.8kHz Window Pattern)
a) Receive signal 16 (78.8kHz window pattern).
b) Perform the cutoff adjustment with TP863, TP864, TP865 and TP866 shorted.
c) Turn the contrast VR fully clockwise (MAX) and measure the color temperature (X1, Y1).
d) Adjust the brightness to about 7cd/m2 by the contrast VR and measure the color temperature. (X2, Y2)
e) Adjust finely the BIAS VR for other than the reference color at the time of cut-off until (X1, Y1) = (X2, Y2).
f) Turn the contrast VR fully clockwise (MAX) once again and measure the color temperature. If a deviation is found, make fine adjustment of step. e) above once again as below.
X1-X2=±0.005, Y1-Y2=±0.005
G) Release the short of TP863, TP864, TP865, and TP866.

19) Sub Bright Adjustment Signal 16 (78.8kHz window pattern)
a) Receive the all black pattern of signal 1.
b) Turn the brightness VR fully clockwise (MAX).
C) Adjust the G SUB BRIGHTNESS to 5cd/m2 using the G SUB BRIGHT VR.
D) Make the following adjustment by using the R and B SUB BRIGHT VRs :
X=X1 ±0.005
Y=Y1 ±0.005
* X1 and Y1 are the values measured in 18.

20) Color Mode Adjustment Signal 15 (78.8kHz)
a) Initial Settings of Adjustment VR
CONTRAST VR : Fully clockwise (MAX)
BRIGHT VR : Fully counterclockwise (MAX)
COLOR SWITCH : N (extreme left)
b) Receive the all white raster pattern of signal 15.
c) Short among TP863, TP864, TP865, and TP866.
d) Push the Degaussing and H POSI Right controls to enter level 2. Make sure that the LED is lit.
e) On the CPU PWB short TP-ADJ pins ② and ④.
f) Adjust the color temperature as below with the user control
X=0.281 ±0.005
Y=0.311 ±0.005
and push MEMORY RECALL SWITCH for two seconds.
g) Release the short of TP863, TP864, TP865, and TP866.
h) Receive the all black pattern of signal 15.

i) Turn the brightness VR fully clockwise (MAX).
J) Push the V POSI DOWN SWITCH while holding the degauss switch to change the user control level to 3 and check to be sure that the LED Blinks ON and OFF.
k) Adjust the color temperature as below using the user control
X=0.281 ±0.005
Y=0.311 ±0.005
and push MEMORY RECALL SWITCH for two seconds. But when the brightness is in excess of 9cd/m2, turn VR623, VR724, and VR725 (G, R, and B SUB BRIGHT) counterclockwise a little at a time, and adjust the color temperature as above at the brightness of 5~9cd/m2.
l) Release the short at TP-ADJ pins ② and ④.
m) Push the V POSI UP SWITCH with the degauss switch to set the user control level to 1.

21) Focus Adjustment
a) Receive the all white raster pattern of signal 15 and adjustment the horizontal/ vertical image size fully to the bezel.
b) Adjust the voltage of TP951 to the values given blow using VR951 (H FOCUS) and VR952 (V FOCUS) :
I) Horizontal cycle : 310±10Vp-p
II) Vertical cycle : 90±5Vp-p
* The probe to be used should be 100:1 C=2pF

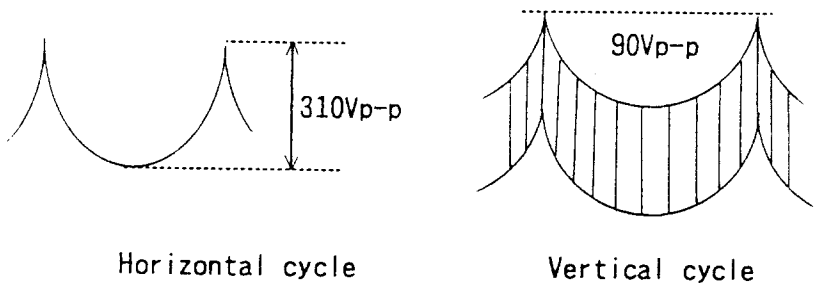


Fig. 5 Parabola Waveform

c) Make the focus adjustment via the procedure as below.
I) Turn the control VR fully clockwise at the place where the back raster just begins to disappear with use of the brightness VR.
II) Receive the crosshatch pattern (17 vertical lines and 13 horizontal lines) of the green uni-color.
III) Adjust the FBT mounted H Focus control until the horizontal lines become fine. Adjust focus for optimum center and edge performance. Also, adjust focus so that halos do not form on the H lines.
IV) Adjust the FBT mounted V Focus control until the vertical lines become fine. Adjust Focus for optimum center edge performance.
V) Repeat steps III) and IV) until there is optimum horizontal and vertical center and edge focus performance.
VI) Receive the white character "&" pattern.
VII) Check to be sure that the hole of white character "&" is created over the entire display screen.
VIII) When uniform focus cannot be obtained, turn the V Focus control slightly to where the offset out-of-focus-point occurs. Then make sure the uniform focus performance is achieved.

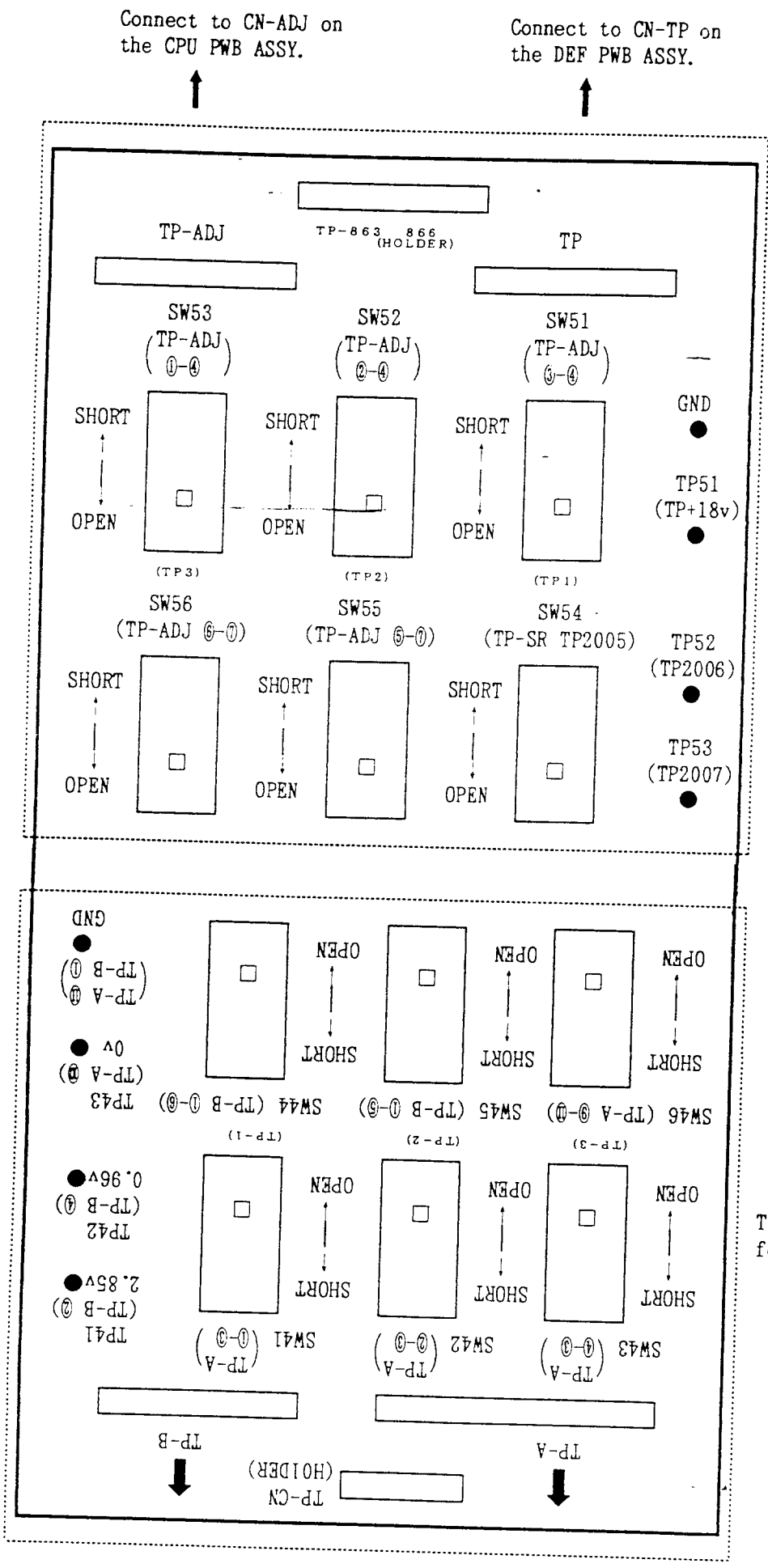
ⅸ) When uniform focus is not obtained in ⅷ), turn the H and V Focus controls slightly to where the offset out-focus-point occurs.
NOTE : When the focus control H is turned, the vertical line focus (V) has to be readjusted. The adjustment of step ⅷ) should be made only when it is not possible to obtain the focus though adjustment in step ⅷ).

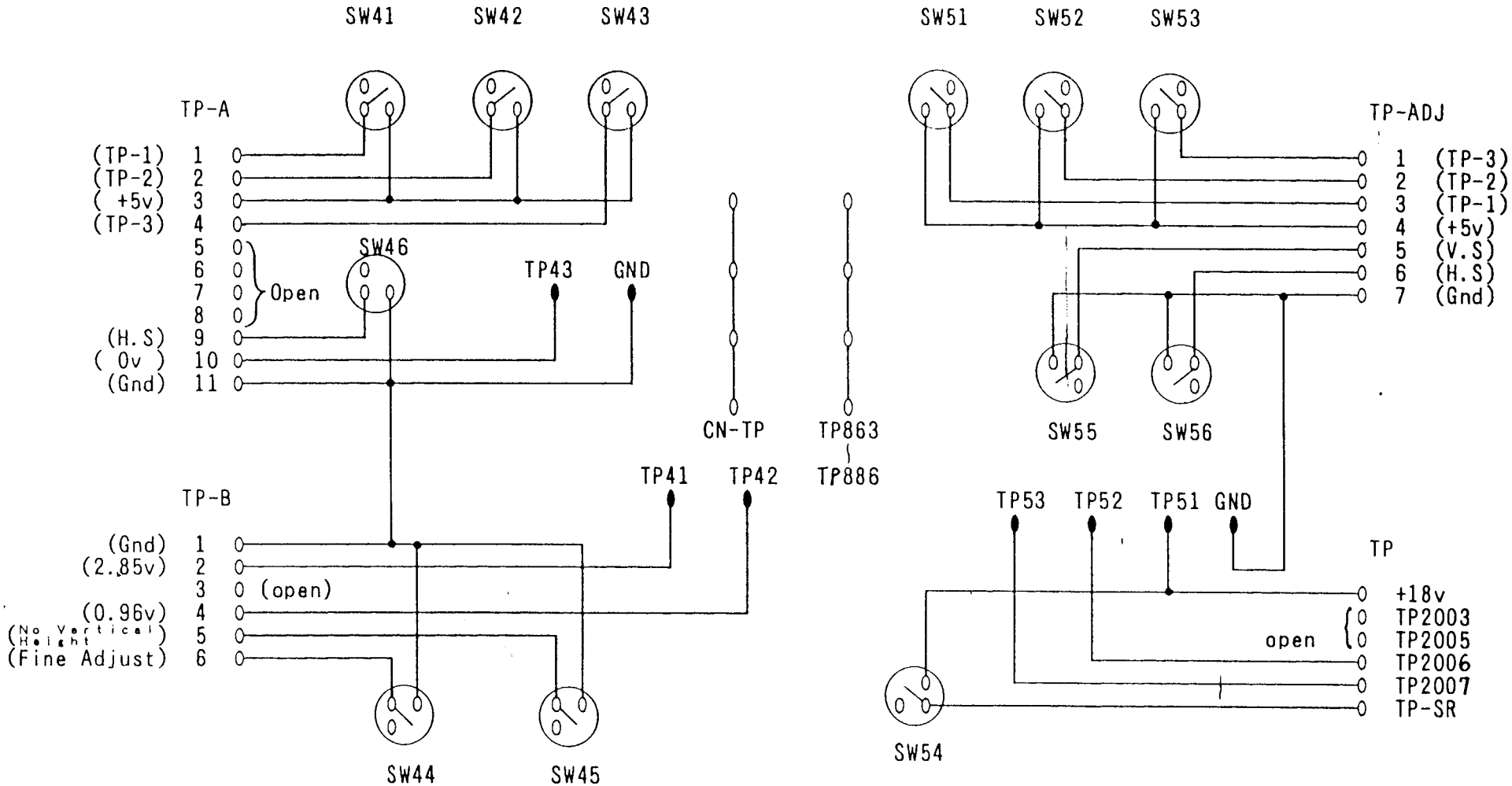
x) When adjustment of ⅷ) and ⅷ) are made, receive the crosshatch signal and check to be sure that halos do not appear on the individual RGB lines.

* Incidentally, when the focus is uniform over the entire display screen, each parabola wave should be corrected to ±40V at the Horizontal cycle and to ±20V at the Vertical cycle.

22) Adjustment Signal Timing

Signal	Contents
1	44kHz 72kHz all-white signal H HOLD 2
2	27kHz 60Hz Separate Sync H Sync : N V Sync : P
3	79kHz 74Hz Sync on Green
4	VGA350 Separate Sync H Sync : P V Sync : N H HOLD 3
5	VGA400 Separate Sync H Sync : N V Sync : P
6	VGA480 Separate Sync H Sync : N V Sync : N
7	MAC-Ⅱ Sync on Green
8	8514A Separate Sync Interlace H Sync : P V Sync : P
9	800*600/56.2Hz Separate Sync H Sync : P V Sync : P
10	800*600/72Hz Separate Sync H Sync : P V Sync : P
11	1024*768/60Hz Separate Sync H Sync : N V Sync : N
12	1024*768/70Hz Separate Sync H Sync : N V Sync : N
13	1280*1024/60Hz Sync on Green H HOLD 1
14	1280*1024/70Hz Sync on Green
15	1280*1024/74Hz Sync on Green
16	1280*1024/74Hz Sync on Green Window Pattern

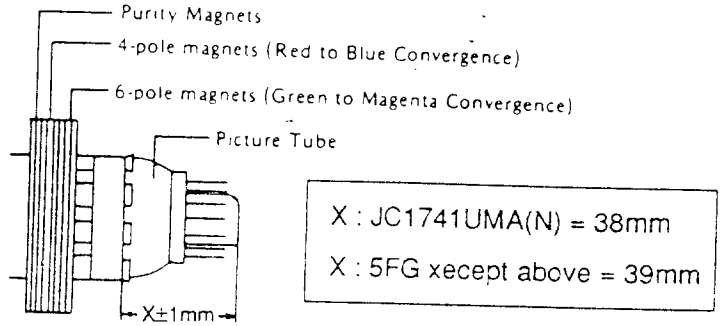

Connect to CN-ADJ on the CPU PWB ASSY.
Connect to CN-TP on the DEF PWB ASSY.
TP-ADJ
TP-863 866 (HOLDER)
TP
SW53 (TP-ADJ ①-④)
SW52 (TP-ADJ ②-④)
SW51 (TP-ADJ ③-④)
SHORT
OPEN
(TP3)
(TP2)
(TP1)
GND
TP51 (TP+18v)
SW56 (TP-ADJ ⑥-⑦)
SW55 (TP-ADJ ⑤-⑦)
SW54 (TP-SR TP2005)
TP52 (TP2006)
TP53 (TP2007)
This part is used for 5FG and 6FG.
GND
TP43
SW44 (TP-B ①-⑥)
SW45 (TP-B ①-⑤)
SW46 (TP-A ⑨-⑪)
TP42
TP41
SW41
SW42
SW43
TP-B
TP-A
TP-CN (HOLDER)
This part is used for 4FG only.



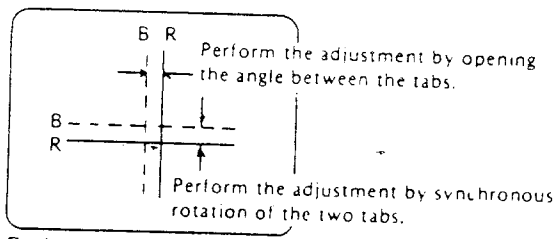
Adjustment jig Schematic Diagram

Purity Adjustment

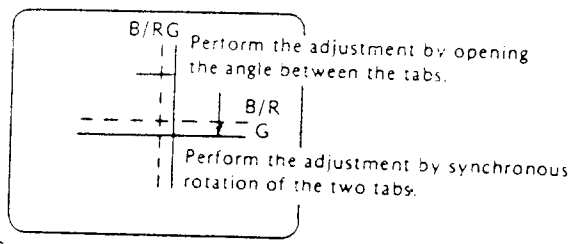
(1) Be sure that the display is not being exposed to any external magnetic fields.
(2) Ensure that the spacing between the Purity Convergence Magnet (PCM) assembly and the CRT stem is 29mm±1mm. (See diagrams below)
(3) Produce a complete, red pattern on the screen. Adjust the purity magnet rings on the PCM assembly to obtain a complete field of the color red. This is done by moving the two tabs in such a manner that they advance in an opposite direction but at the same time to obtain the same angle between the two tabs, which should be approximately 180°.
(4) Check the complete blue and complete green patterns to observe their respective color purity. make minor adjustments if needed.


Purity Magnets
4-pole magnets (Red to Blue Convergence)
6-pole magnets (Green to Magenta Convergence)
Picture Tube
X±1mm
X : JC1741UMA(N) = 38mm
X : 5FG xecept above = 39mm

Purity, Convergence Magnet Assembly (PCM)


B R
Perform the adjustment by opening the angle between the tabs.
B
R
Perform the adjustment by synchronous rotation of the two tabs.

Red to Blue Convergence
(Magenta)


B/RG
Perform the adjustment by opening the angle between the tabs.
B/R
G
Perform the adjustment by synchronous rotation of the two tabs.

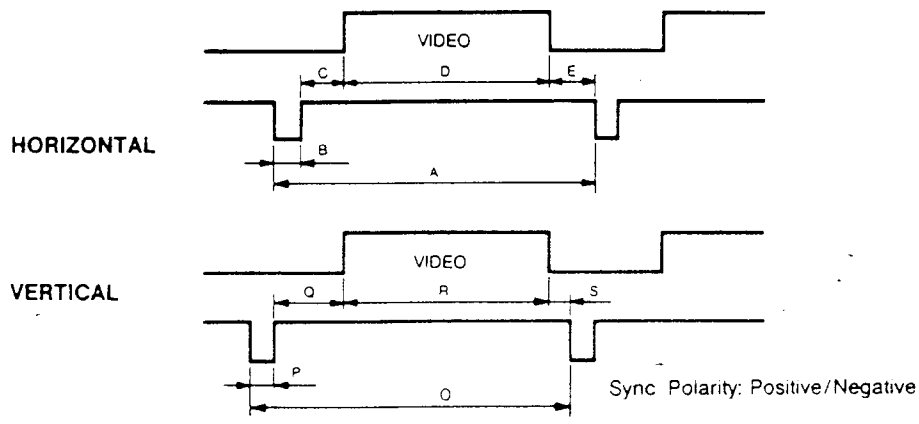
Green to Magenta Convergence
(White)

Convergence Adjustment

(1) Produce a magenta crosshatch on the screen.
(2) Adjust the focus for the best overall focus on the screen.
Also adjust the brightness to the desired condition.
(3) Vertical red and blue lines are converged by varying the angle between the two tabs of the 4-pole magnets on the PCM assembly. (See diagrams above)
(4) Horizontal red and blue lines are converged by varying the two tabs together, keeping the angle between them constant.
(5) Produce a white crosshach pattern of the screen.
(6) Vertical green and magenta lines are converged by varying the angle between the two tabs of the 6-pole magnets.
(7) Horizontal green and magenta lines are converged by varying the two tabs together, keeping the angle between them constant.

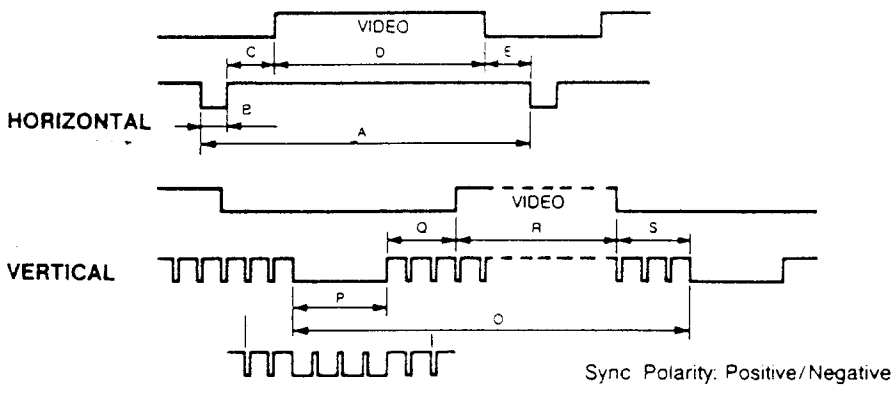
TIMING CHARTS

SEPARATE SYNC



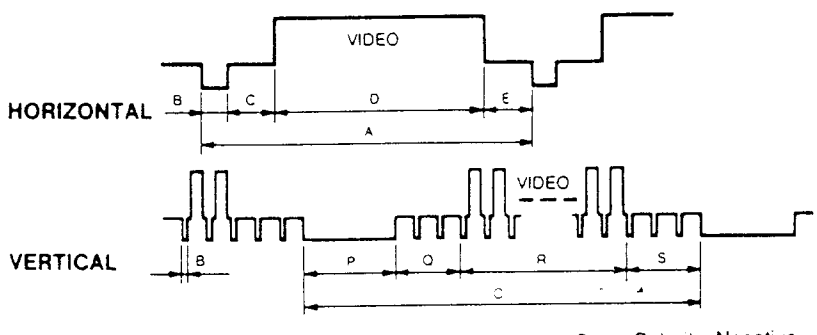
Sync Polarity: Positive/Negative

COMPOSITE SYNC



Sync Polarity: Positive/Negative

COMPOSITE SYNC AND VIDEO (SYNC ON GREEN)



Sync Polarity: Negative

REFERENCE TIMING SIGNAL

SIGNALS FOR USING LVG-1603

	Abbreviation	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			44kHz 72Hz	27kHz 60Hz	79kHz 74Hz	VGA350	VGA400	VGA480	MAC II	8514A	800x 600 56Hz	800x 600 72Hz	1024x 768 60Hz	1024x 768 70Hz	1280x 1024 60Hz	1280x 1024 70Hz	1280x 1024 74Hz	1280x 1024 74Hz WINDOW
HORIZONTAL	Total	DOT	1040	0900	0759	0900	0900	0900	0864	1264	1024	1040	1024	1062	0932	0800	0760	0760
	Rate	kHz	044000	027000	079000	031470	031470	031470	035000	035520	035160	048090	048360	056480	064310	074910	078860	078860
	Dots/Character	DOT	08	08	09	09	09	09	09	08	08	08	09	09	08	09	08	08
	Characters	CHR	F100	F090	F063	F080	F080	F080	F080	F128	F100	F100	F105	F091	F090	F067	F071	F018
	Drive Delay	DOT	0856	0738	0582	0738	0738	0738	0704	1032	0824	0856	0967	0838	0739	0619	0582	0371
	Drive Width	DOT	0120	0108	0064	0108	0108	0108	0064	0176	0072	0120	0125	0109	0058	0075	0064	0064
VERTICAL	Total	RASTER	0609	0449	1064	0449	0449	0524	0525	0409	0625	0666	0806	0806	1065	1072	1064	1064
	Rate	Hz	072250	060134	074248	070000	070000	060000	066700	087000	056200	072207	060000	070074	060385	069879	074117	074117
	Lines/Character	RASTER	10	10	10	14	16	16	16	12	15	10	10	10	10	10	10	10
	Rows	RASTER	0549	0400	1024	0350	0400	0480	0480	0384	0600	0600	0768	0768	1024	1024	1024	0326
	Drive Delay	RASTER	0583	0412	1024	0387	0412	0489	0483	0384	0601	0637	0771	0771	1030	1026	1024	0675
	Drive Width	RASTER	0005	0002	0003	0002	0002	0002	0003	0004	0002	0006	0006	0006	0003	0004	0003	0003
DOT RATE		MHz	045760	024300	059961	028323	028323	028323	030240	044897	036004	050014	059966	059982	059937	059928	059934	059934
Scan Mode			F0	F0	F0	F0	F0	F0	F0	F1	F0	F0	F0	F0	F0	F0	F0	F0
Character Font			F1	F1	F1	F1	F1	F1	F1	F1	F1	F1	F1	F1	F1	F1	F1	F1
Charactor Code			48	48	48	—	—	—	—	—	—	48	48	48	48	48	48	48
Pattern Key code			F2	F2	F2	F	F	F	F	F	F	F2	F2	F2	F2	F2	F2	F2
Video Output			1110	1110	1110	1110	1110	1110	1110	1110	1110	1110	1110	1110	1110	1110	1110	1110
Add Sync/Inverse			0000	0000	0100	0001	0001	0001	0001	0001	0101	0000	0000	0000	0100	0100	0100	0100
Dot Duty			00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
Polarity			00	01	00	10	01	00	00	11	11	11	00	00	00	00	00	00

SIGNAL FOR USING QUANTUM801C

Abbreviation	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	44 kHz	27 kHz	79 kHz	VGA 350	VGA 400	VGA 480	MAC II	8514A	800x600 56Hz	800x600 72Hz	1024x768 60Hz	1024x768 70Hz	1280x1024 60Hz	1280x1024 70Hz	1280x1024 74Hz	1280x1024 74Hz WIN
Real Timing Parameter																
Dot Rate (MHz)	31.680	24.300	|	28.320	28.320	28.320	30.240	31.968	31.960	31.932	31.773	31.692	31.898	|	|	|
Horizontal Rate (kH$_z$)	44.000	27.000	|	31.467	31.467	31.467	35.000	35.520	35.160	48.090	48.360	56.480	64.310	|	|	|
Vertical Rate (H$_z$)	72.250	60.134	|	70.08	70.08	60.06	66.67	86.96	56.26	72.207	60.000	70.074	60.385	|	|	|
Non-Real Time Parameters																
H: Dots/Character	8	9	|	9	9	9	8	9	9	8	9	8	8	|	|	|
Total Character	90	100	|	100	100	100	108	100	101	83	73	70	62	|	|	|
Displyed Characters	70	80	|	80	80	80	80	81	79	64	56	55	48	|	|	|
Drive Delay	75	82	|	82	82	82	88	82	81	68	57	56	49	|	|	|
Drive Width	11	12	|	12	12	12	8	14	7	10	7	7	4	|	|	|
V: Lines/Character	10	10	|	10	10	10	10	12	10	12	12	12	10	|	|	|
Total Lines	609	449	|	449	449	524	525	817	625	666	806	806	1065	|	|	|
Displayed Rows	55	40	|	35	40	48	48	64	60	50	64	64	102	|	|	|
Drive Delay	58	41	|	39	41	49	48	64	60	53	64	64	103	|	|	|
Drive Width	5	2	|	2	2	2	3	4	2	6	6	6	3	|	|	|
Step Width	2	2	|	2	2	2	2	2	2	2	2	2	2	|	|	|
Signal Gating																
Composite Sync OP 1	1	1	|	0	0	0	0	0	0	1	1	1	1	|	|	|
Vertical Step OP 2	0	0	|	0	0	0	0	0	0	0	0	0	0	|	|	|
Horizontal Drive OP 3	1	1	|	1	1	1	1	1	1	1	1	1	1	|	|	|
Vertical Drive OP 4	1	1	|	1	1	1	1	1	1	1	1	1	1	|	|	|
Signal Polarity																
Composite Sync OP 5	1	1	|	-	-	-	-	-	-	0	1	1	1	|	|	|
Vertical Step OP 6	1	1	|	0	0	0	0	0	0	1	1	1	1	|	|	|
Horizontal Drive OP 7	1	1	|	0	1	1	1	0	0	0	1	1	1	|	|	|
Vertical Drive OP 8	1	0	|	1	0	1	1	0	0	0	1	1	1	|	|	|
Video OP 13	0	0	|	0	0	0	0	0	0	0	0	0	0	|	|	|
Interlace OP 9	0	0	|	0	0	0	0	3	0	0	0	0	0	|	|	|
Video Mode OP 10	1	1	|	1	1	1	1	1	1	1	1	1	1	|	|	|
Duty Cycle OP 11	0	0	|	0	0	0	0	0	0	0	0	0	0	|	|	|
Character Clocking																
Mode OP 12	0	0	|	0	0	0	0	0	0	0	0	0	0	|	|	|
Horizontal OP 14	0	0	|	-	-	-	-	-	-	0	0	0	0	|	|	|
Vertical OP 15	0	0	|	-	-	-	-	-	-	0	0	0	0	|	|	|
Cursor OP 16	0	0	|	-	-	-	-	-	-	0	0	0	0	|	|	|

NOTE: Quantum 801C (fH ≦ 65kHz) can not use for the item 3, 14, 15 and 16 of this timing chart.

TROUBLE SHOOTING

Before using this chart, please refer to the trouble shooting section in the user's manual.

TABLE OF CONTENTS

1. NO RASTER

2. ABNORMAL VIDEO ON CRT SCREEN

3. UNSTABLE PICTURE
   - 3-1) Horizontal
   - 3-2) Vertical

4. ABNORMAL PICTURE
   - 4-1) Horizontal Size
   - 4-2) Vertical Size
   - 4-3) Horizontal Position
   - 4-4) Vertical Position
   - 4-5) Poor Linearity
     - 4-5-1) Horizontal
     - 4-5-2) Vertical
   - 4-6) Side Pincushion Distortion Fault
   - 4-7) Poor Focus
   - 4-8) Impurity On CRT Screen

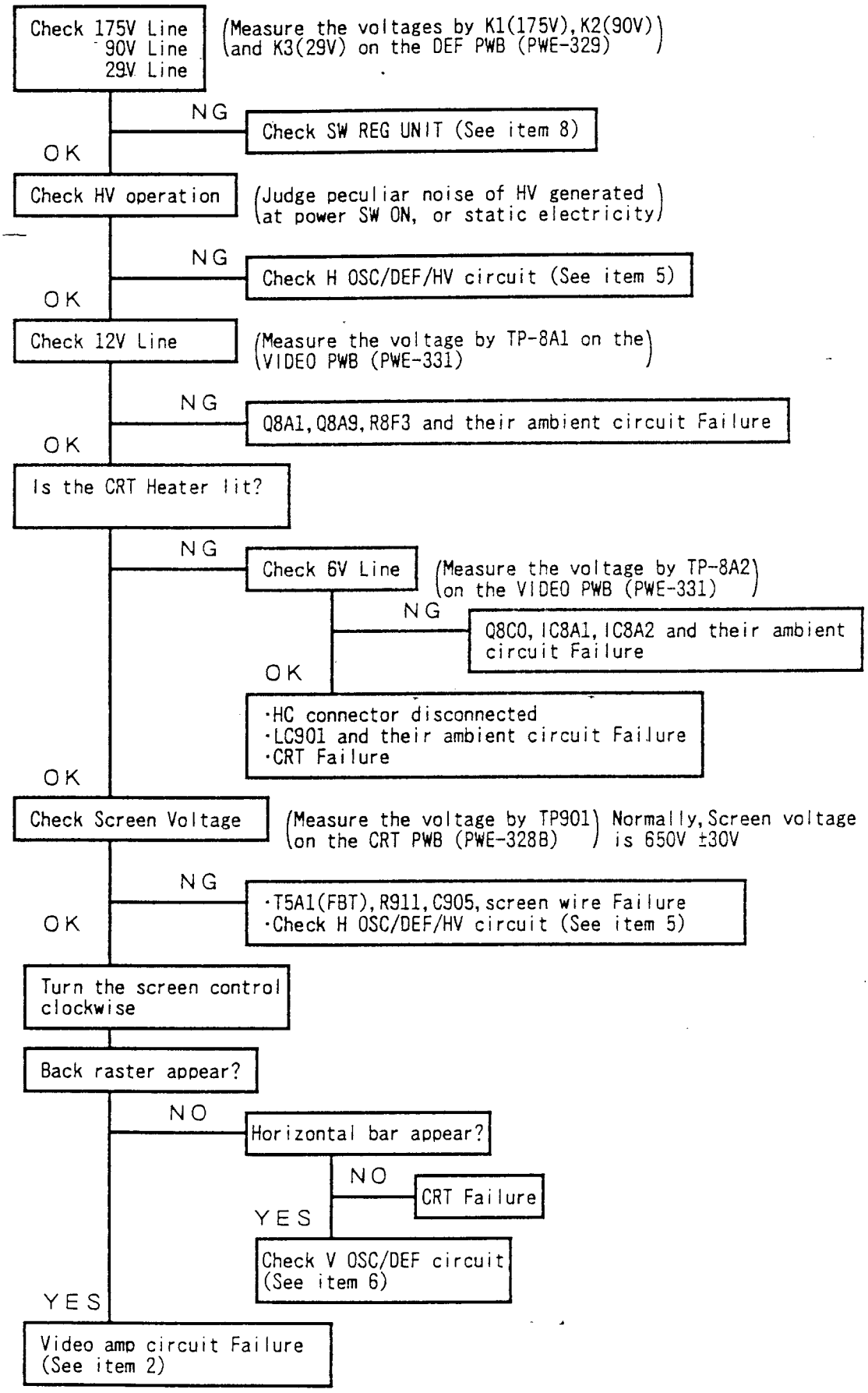
5. H OSC/DEF/HV CIRCUIT FAULT

6. V OSC/DEF CIRCUIT FAULT

7. DIGITAL CONTROL CIRCUIT FAULT
   - 7-1) Digital Control Error
   - 7-2) User Control Error
   - 7-3) Memory Access Error
   - 7-4) Self-test Error

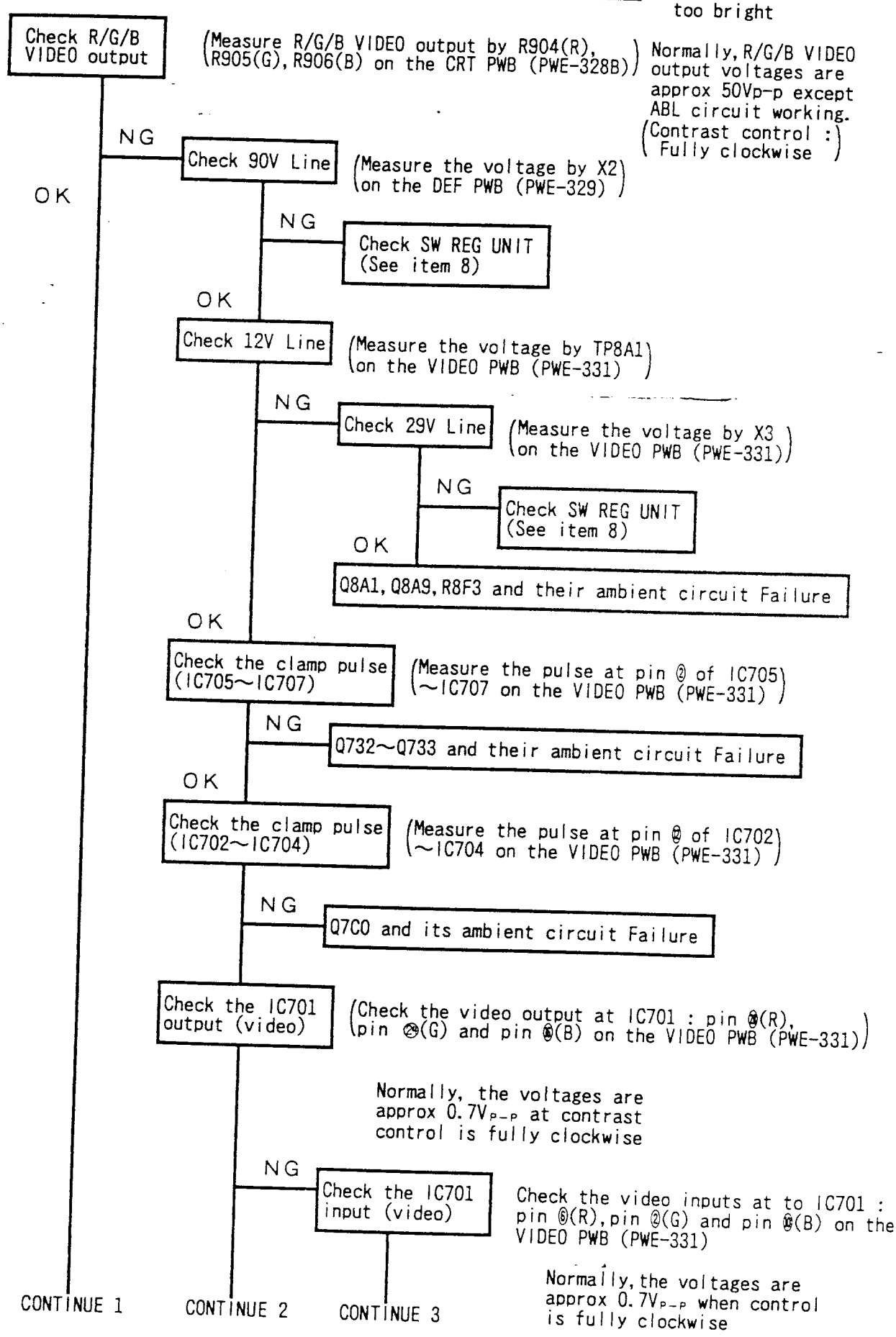
8. SWITCHING REGULATOR UNIT
   - 8-1) The Switching Regulator Unit Failure (JC-1741UMA/JC-1742UMA)
   - 8-2) The Switching Regulator Unit Failure (JC-1741UMB/R/B(EE))

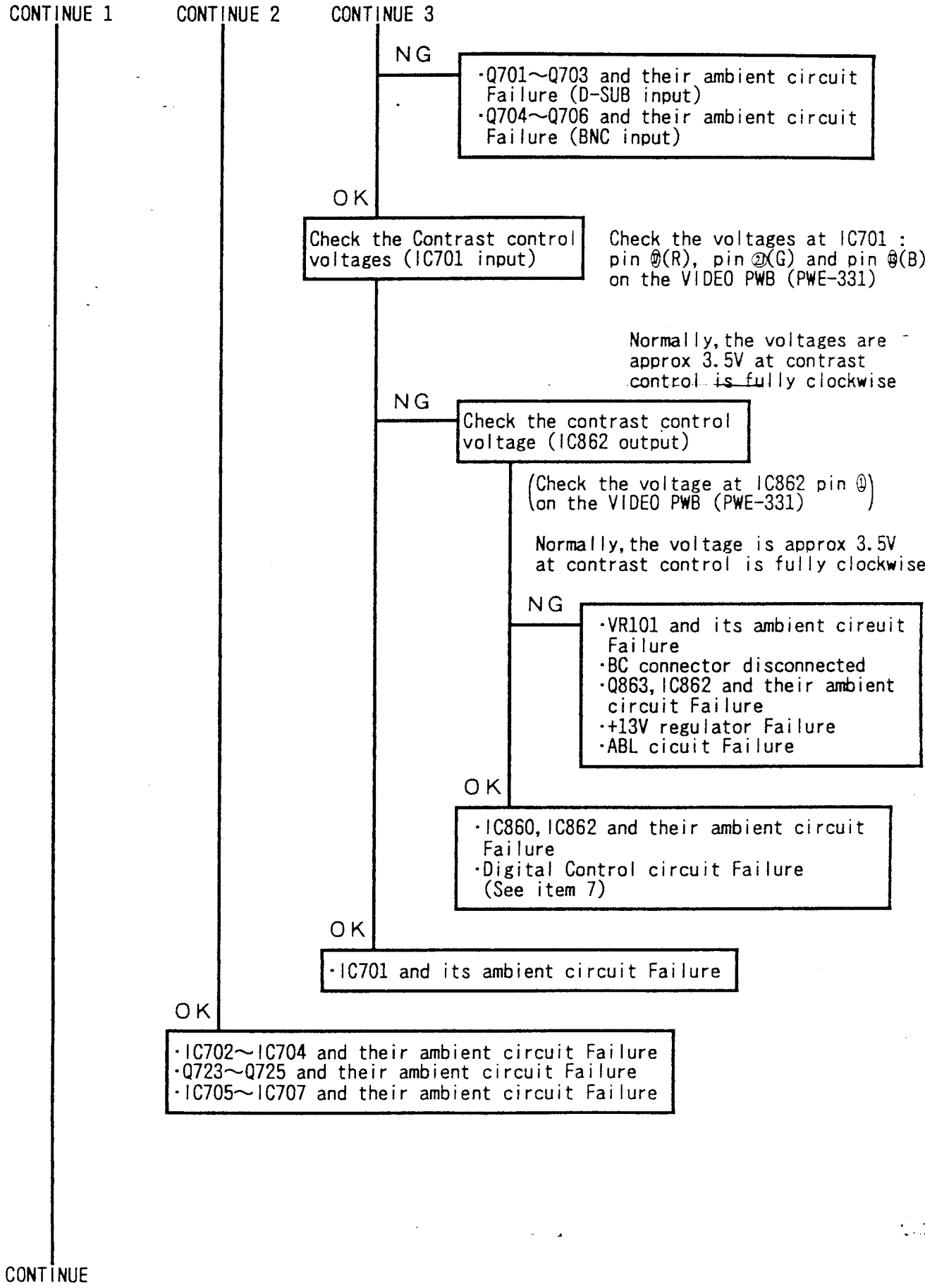
1. NO RASTER

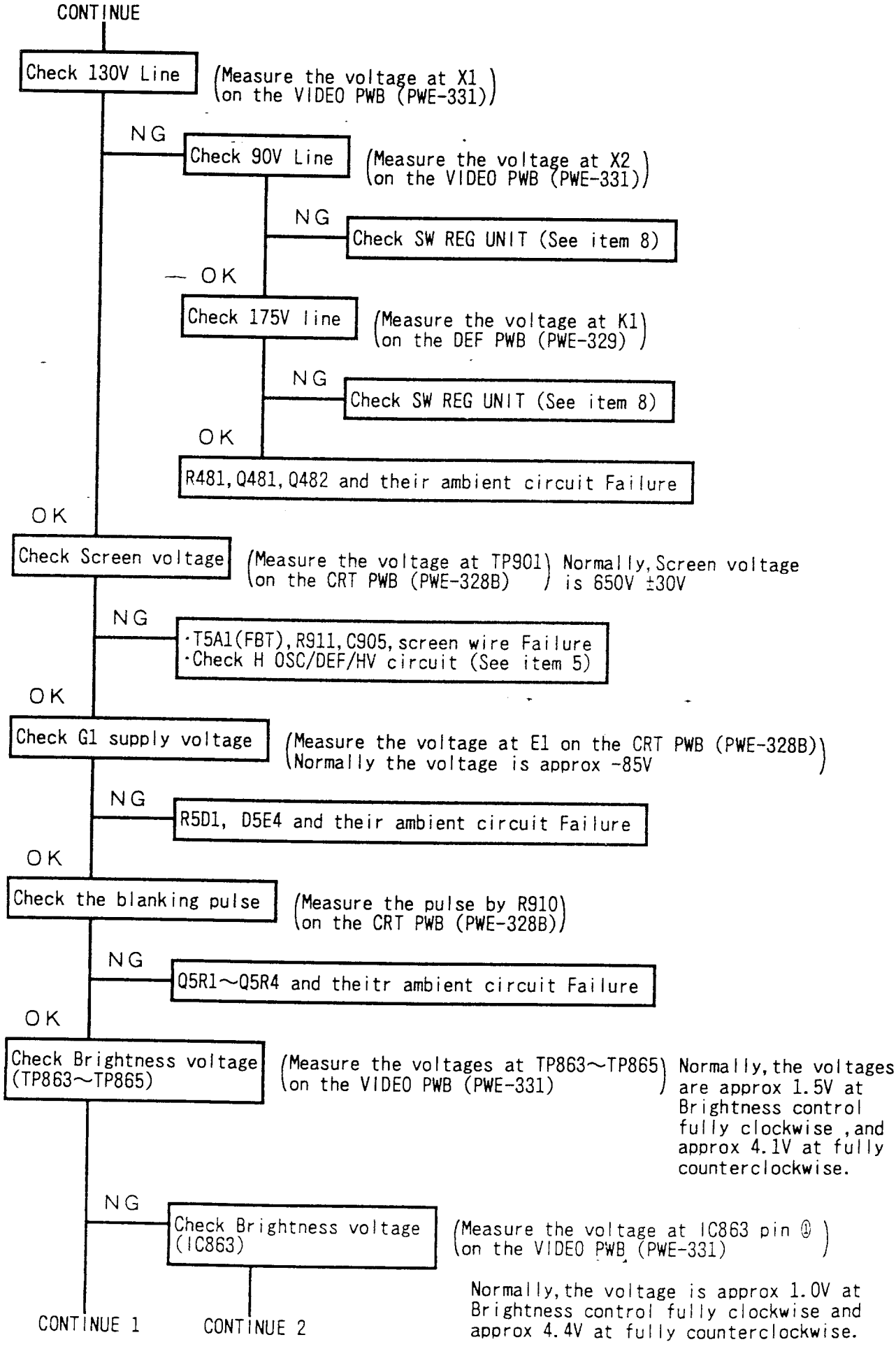

Check 175V Line
90V Line
29V Line
(Measure the voltages by K1(175V), K2(90V) and K3(29V) on the DEF PWB (PWE-329))
NG
Check SW REG UNIT (See item 8)
OK
Check HV operation
(Judge peculiar noise of HV generated at power SW ON, or static electricity)
NG
Check H OSC/DEF/HV circuit (See item 5)
OK
Check 12V Line
(Measure the voltage by TP-8A1 on the VIDEO PWB (PWE-331))
NG
Q8A1, Q8A9, R8F3 and their ambient circuit Failure
OK
Is the CRT Heater lit?
NG
Check 6V Line
(Measure the voltage by TP-8A2 on the VIDEO PWB (PWE-331))
NG
Q8C0, IC8A1, IC8A2 and their ambient circuit Failure
OK
·HC connector disconnected
·LC901 and their ambient circuit Failure
·CRT Failure
OK
Check Screen Voltage
(Measure the voltage by TP901 on the CRT PWB (PWE-328B))
Normally, Screen voltage is 650V ±30V
NG
·T5A1(FBT), R911, C905, screen wire Failure
·Check H OSC/DEF/HV circuit (See item 5)
OK
Turn the screen control clockwise
Back raster appear?
NO
Horizontal bar appear?
NO
CRT Failure
YES
Check V OSC/DEF circuit (See item 6)
YES
Video amp circuit Failure (See item 2)

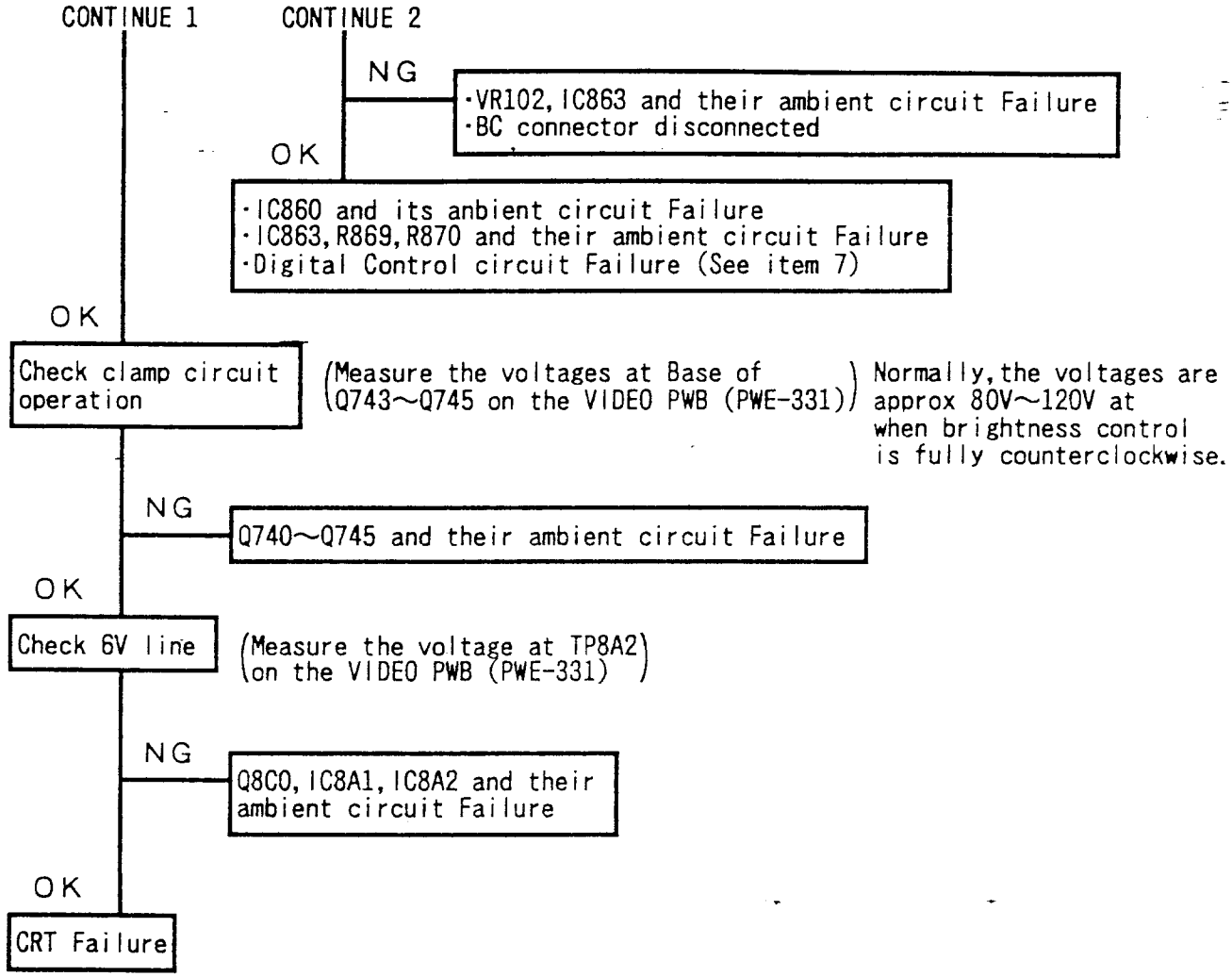
2. ABNORMAL VIDEO ON CRT SCREEN

Too dark or too bright


Check R/G/B VIDEO output
(Measure R/G/B VIDEO output by R904(R), R905(G), R906(B) on the CRT PWB (PWE-328B))
Normally, R/G/B VIDEO output voltages are approx 50Vp-p except ABL circuit working. (Contrast control : Fully clockwise)
NG
Check 90V Line
(Measure the voltage by X2 on the DEF PWB (PWE-329))
OK
NG
Check SW REG UNIT (See item 8)
OK
Check 12V Line
(Measure the voltage by TP8A1 on the VIDEO PWB (PWE-331))
NG
Check 29V Line
(Measure the voltage by X3 on the VIDEO PWB (PWE-331))
NG
Check SW REG UNIT (See item 8)
OK
Q8A1, Q8A9, R8F3 and their ambient circuit Failure
OK
Check the clamp pulse (IC705~IC707)
(Measure the pulse at pin ② of IC705 ~IC707 on the VIDEO PWB (PWE-331))
NG
Q732~Q733 and their ambient circuit Failure
OK
Check the clamp pulse (IC702~IC704)
(Measure the pulse at pin ⑫ of IC702 ~IC704 on the VIDEO PWB (PWE-331))
NG
Q7C0 and its ambient circuit Failure
Check the IC701 output (video)
(Check the video output at IC701 : pin ⑱(R), pin ㉔(G) and pin ⑥(B) on the VIDEO PWB (PWE-331))
Normally, the voltages are approx 0.7Vp-p at contrast control is fully clockwise
NG
Check the IC701 input (video)
Check the video inputs at to IC701 : pin ⑥(R), pin ②(G) and pin ⑫(B) on the VIDEO PWB (PWE-331)
Normally, the voltages are approx 0.7Vp-p when control is fully clockwise
OK
CONTINUE 1
CONTINUE 2
CONTINUE 3

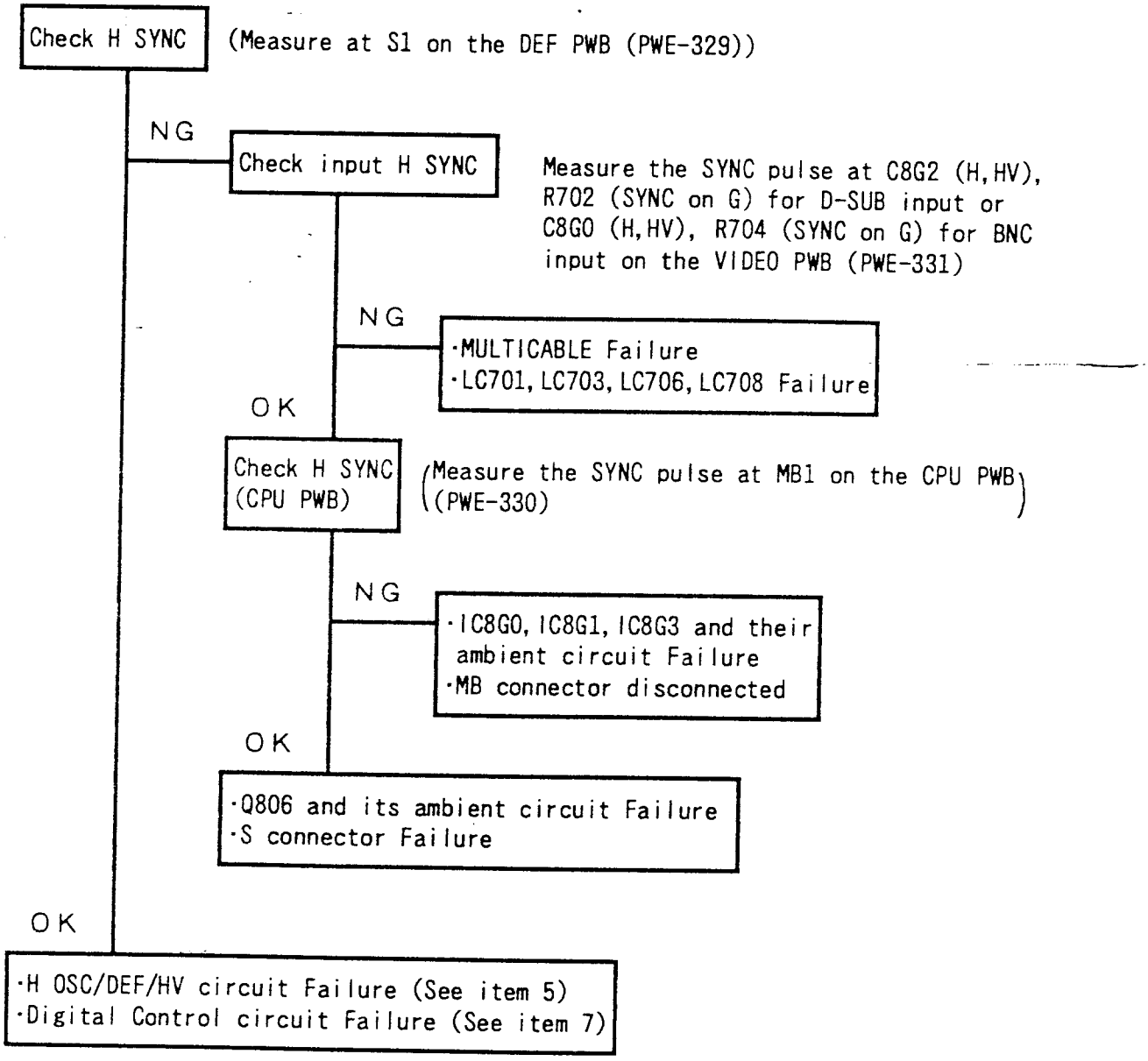

CONTINUE 1
CONTINUE 2
CONTINUE 3
NG
·Q701~Q703 and their ambient circuit Failure (D-SUB input)
·Q704~Q706 and their ambient circuit Failure (BNC input)
OK
Check the Contrast control voltages (IC701 input)
Check the voltages at IC701 : pin ⑰(R), pin ㉑(G) and pin ㉕(B) on the VIDEO PWB (PWE-331)
Normally, the voltages are approx 3.5V at contrast control is fully clockwise
NG
Check the contrast control voltage (IC862 output)
(Check the voltage at IC862 pin ①) on the VIDEO PWB (PWE-331)
Normally, the voltage is approx 3.5V at contrast control is fully clockwise
NG
·VR101 and its ambient cireuit Failure
·BC connector disconnected
·Q863, IC862 and their ambient circuit Failure
·+13V regulator Failure
·ABL cicuit Failure
OK
·IC860, IC862 and their ambient circuit Failure
·Digital Control circuit Failure (See item 7)
OK
·IC701 and its ambient circuit Failure
OK
·IC702~IC704 and their ambient circuit Failure
·Q723~Q725 and their ambient circuit Failure
·IC705~IC707 and their ambient circuit Failure
CONTINUE


CONTINUE
Check 130V Line
(Measure the voltage at X1 on the VIDEO PWB (PWE-331))
NG
Check 90V Line
(Measure the voltage at X2 on the VIDEO PWB (PWE-331))
NG
Check SW REG UNIT (See item 8)
OK
Check 175V line
(Measure the voltage at K1 on the DEF PWB (PWE-329))
NG
Check SW REG UNIT (See item 8)
OK
R481, Q481, Q482 and their ambient circuit Failure
OK
Check Screen voltage
(Measure the voltage at TP901 on the CRT PWB (PWE-328B))
Normally, Screen voltage is 650V ±30V
NG
·T5A1(FBT), R911, C905, screen wire Failure
·Check H OSC/DEF/HV circuit (See item 5)
OK
Check G1 supply voltage
(Measure the voltage at E1 on the CRT PWB (PWE-328B) Normally the voltage is approx -85V)
NG
R5D1, D5E4 and their ambient circuit Failure
OK
Check the blanking pulse
(Measure the pulse by R910 on the CRT PWB (PWE-328B))
NG
Q5R1~Q5R4 and theitr ambient circuit Failure
OK
Check Brightness voltage (TP863~TP865)
(Measure the voltages at TP863~TP865 on the VIDEO PWB (PWE-331))
Normally, the voltages are approx 1.5V at Brightness control fully clockwise, and approx 4.1V at fully counterclockwise.
NG
Check Brightness voltage (IC863)
(Measure the voltage at IC863 pin ① on the VIDEO PWB (PWE-331))
Normally, the voltage is approx 1.0V at Brightness control fully clockwise and approx 4.4V at fully counterclockwise.
CONTINUE 1
CONTINUE 2

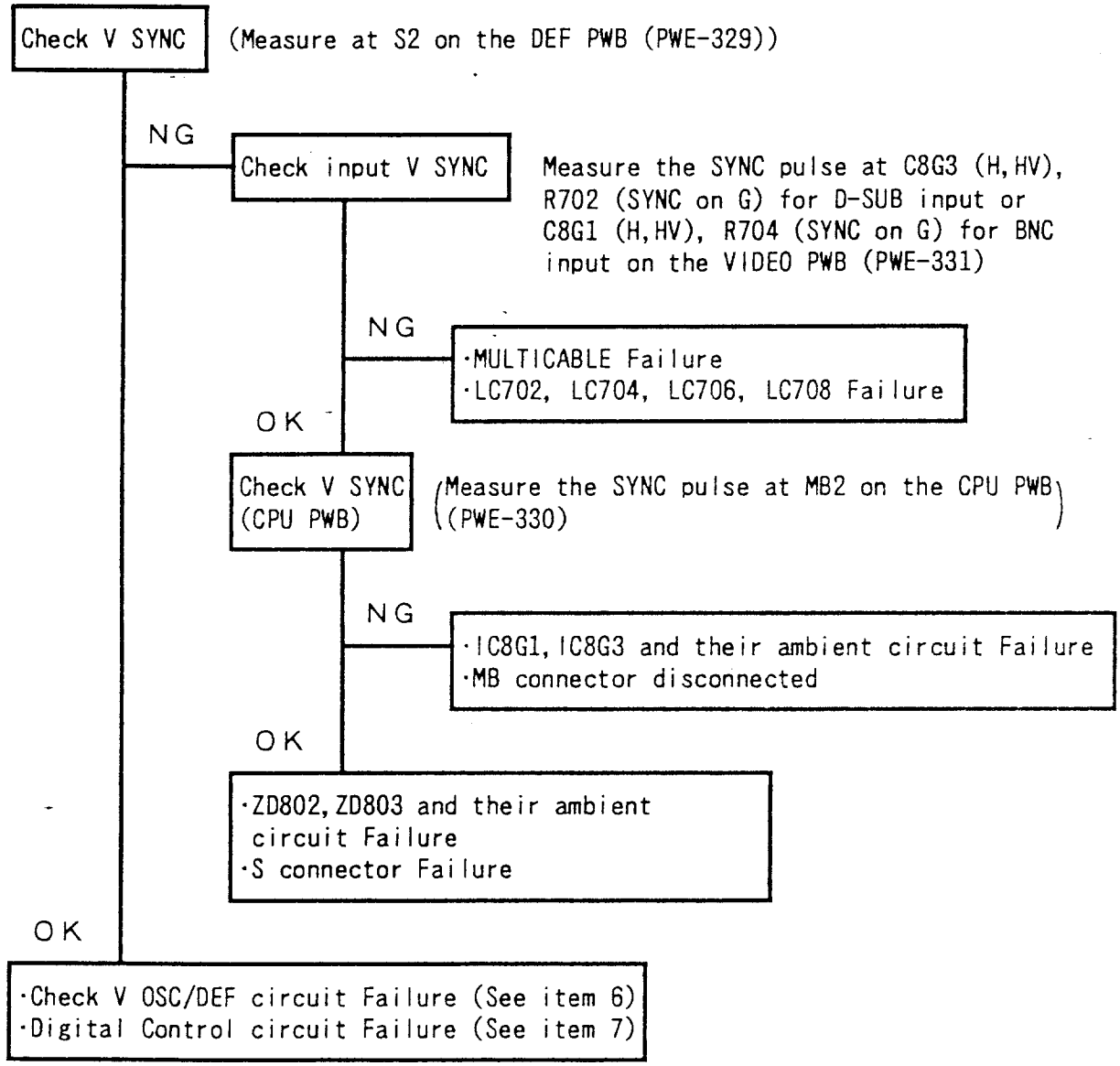

CONTINUE 1
CONTINUE 2
NG
·VR102, IC863 and their ambient circuit Failure
·BC connector disconnected
OK
·IC860 and its anbient circuit Failure
·IC863, R869, R870 and their ambient circuit Failure
·Digital Control circuit Failure (See item 7)
OK
Check clamp circuit operation
(Measure the voltages at Base of Q743~Q745 on the VIDEO PWB (PWE-331))
Normally, the voltages are approx 80V~120V at when brightness control is fully counterclockwise.
NG
Q740~Q745 and their ambient circuit Failure
OK
Check 6V line
(Measure the voltage at TP8A2 on the VIDEO PWB (PWE-331))
NG
Q8C0, IC8A1, IC8A2 and their ambient circuit Failure
OK
CRT Failure

3. UNSTABLE PICTURE

3-1) Horizontal


Check H SYNC
(Measure at S1 on the DEF PWB (PWE-329))
NG
Check input H SYNC
Measure the SYNC pulse at C8G2 (H,HV), R702 (SYNC on G) for D-SUB input or C8G0 (H,HV), R704 (SYNC on G) for BNC input on the VIDEO PWB (PWE-331)
NG
·MULTICABLE Failure
·LC701, LC703, LC706, LC708 Failure
OK
Check H SYNC (CPU PWB)
(Measure the SYNC pulse at MB1 on the CPU PWB (PWE-330))
NG
·IC8G0, IC8G1, IC8G3 and their ambient circuit Failure
·MB connector disconnected
OK
·Q806 and its ambient circuit Failure
·S connector Failure
OK
·H OSC/DEF/HV circuit Failure (See item 5)
·Digital Control circuit Failure (See item 7)

3-2) Vertical


Check V SYNC
(Measure at S2 on the DEF PWB (PWE-329))
NG
Check input V SYNC
Measure the SYNC pulse at C8G3 (H,HV), R702 (SYNC on G) for D-SUB input or C8G1 (H,HV), R704 (SYNC on G) for BNC input on the VIDEO PWB (PWE-331)
NG
·MULTICABLE Failure
·LC702, LC704, LC706, LC708 Failure
OK
Check V SYNC (CPU PWB)
(Measure the SYNC pulse at MB2 on the CPU PWB (PWE-330))
NG
·IC8G1, IC8G3 and their ambient circuit Failure
·MB connector disconnected
OK
·ZD802, ZD803 and their ambient circuit Failure
·S connector Failure
OK
·Check V OSC/DEF circuit Failure (See item 6)
·Digital Control circuit Failure (See item 7)

4. ABNORMAL PICTURE

4-1) Horizontal Size

Check HV Voltage (Measure the voltage at Anode of CRT)
Normally, the voltage is approx 25kV.

NG → HV circuit Failure (See item 5)

OK

Check 13V Line (Measure the voltage at TP-861 on the VIDEO PWB (PWE-331))

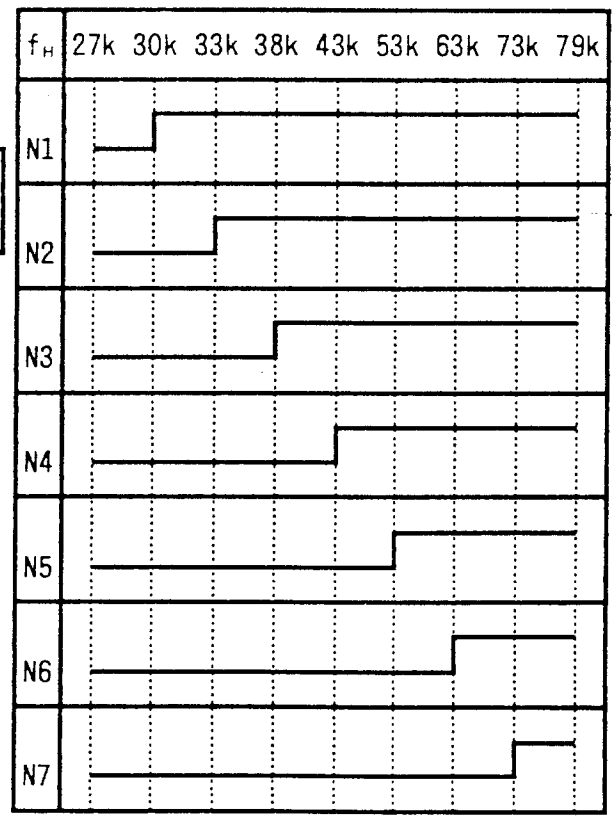
NG → R860, Q860, Q861 and their ambient circuit Failure

OK

Check Digital Control circuit output (N1~N7) (See Fig. 1)

NG → Digital Control circuit Failure (See item 7)

CONTINUE



(TTL level output)
Fig. 1

CONTINUE

OK

Check S-correction capacitor switching circuit

(Check the operation of Q591～Q596 and C595～C59A)

NG

- Q591～Q596, C595～C59A and their ambient circuit Failure
- Q50A～Q55A and Q58A, IC510～IC511 and their ambient circuit Failure

OK

Check if P2 voltage is changeable by SW108, SW109

(Measure the voltage at P2 on the DEF PWB (PWE-329))

Normally, the voltage is changeable from approx 1V to approx 11V

NG

Digital Control circuit Failure (See item 7)

OK

Check Q581 F.B.P. See Fig.2

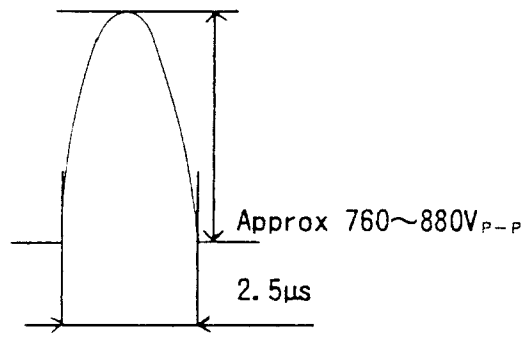


Fig.2

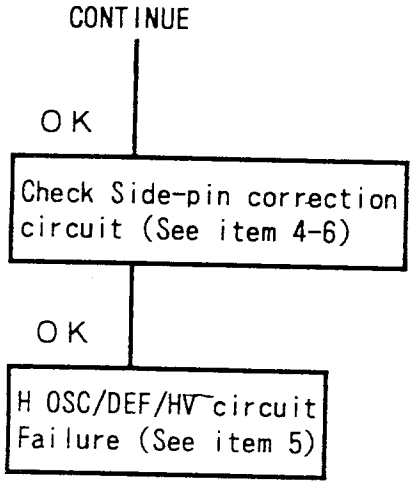
NG

- Q581, C581, C582 and their ambient circuit Failure
- IC5G0, IC5G1, T581 and their ambient circuit Failure

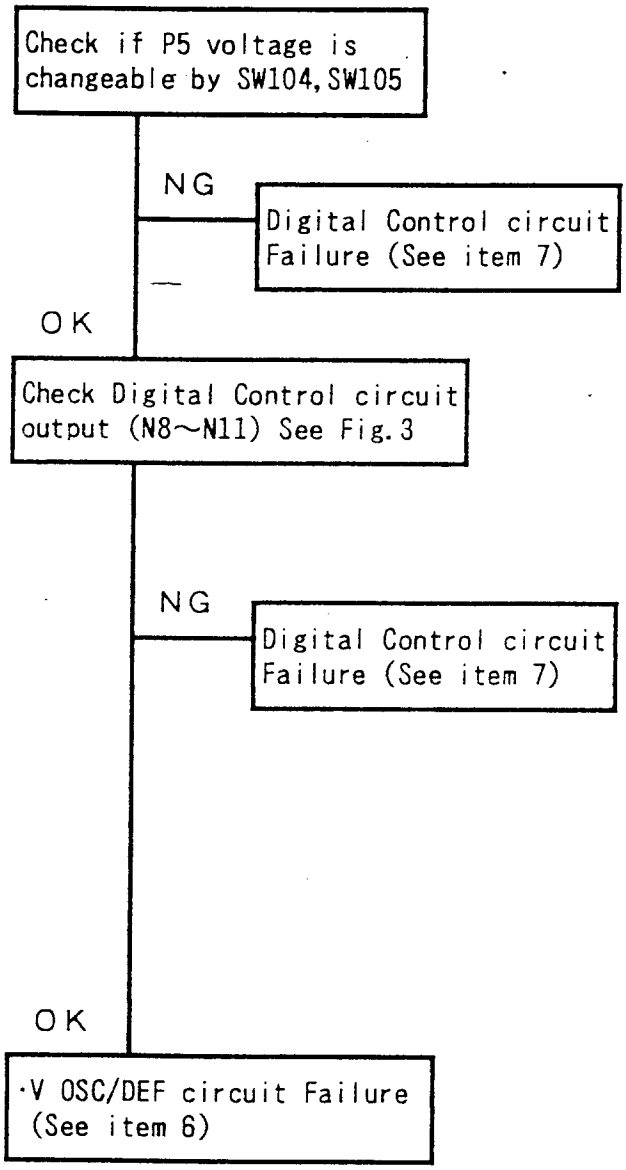
OK

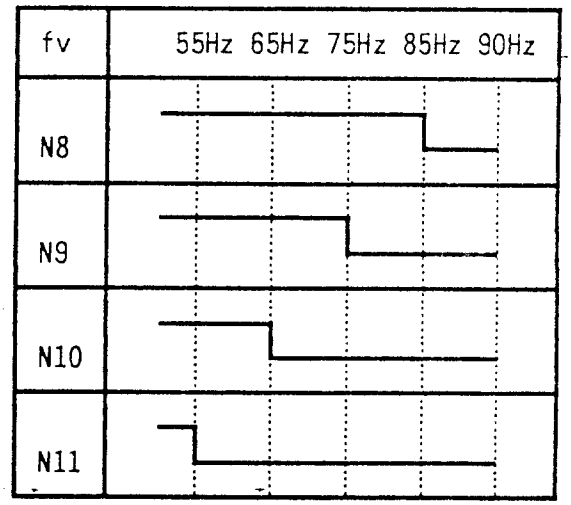
Check Horizontal Linearity correction circuit (See item 4-5-1)

CONTINUE


CONTINUE
OK
Check Side-pin correction circuit (See item 4-6)
OK
H OSC/DEF/HV circuit Failure (See item 5)

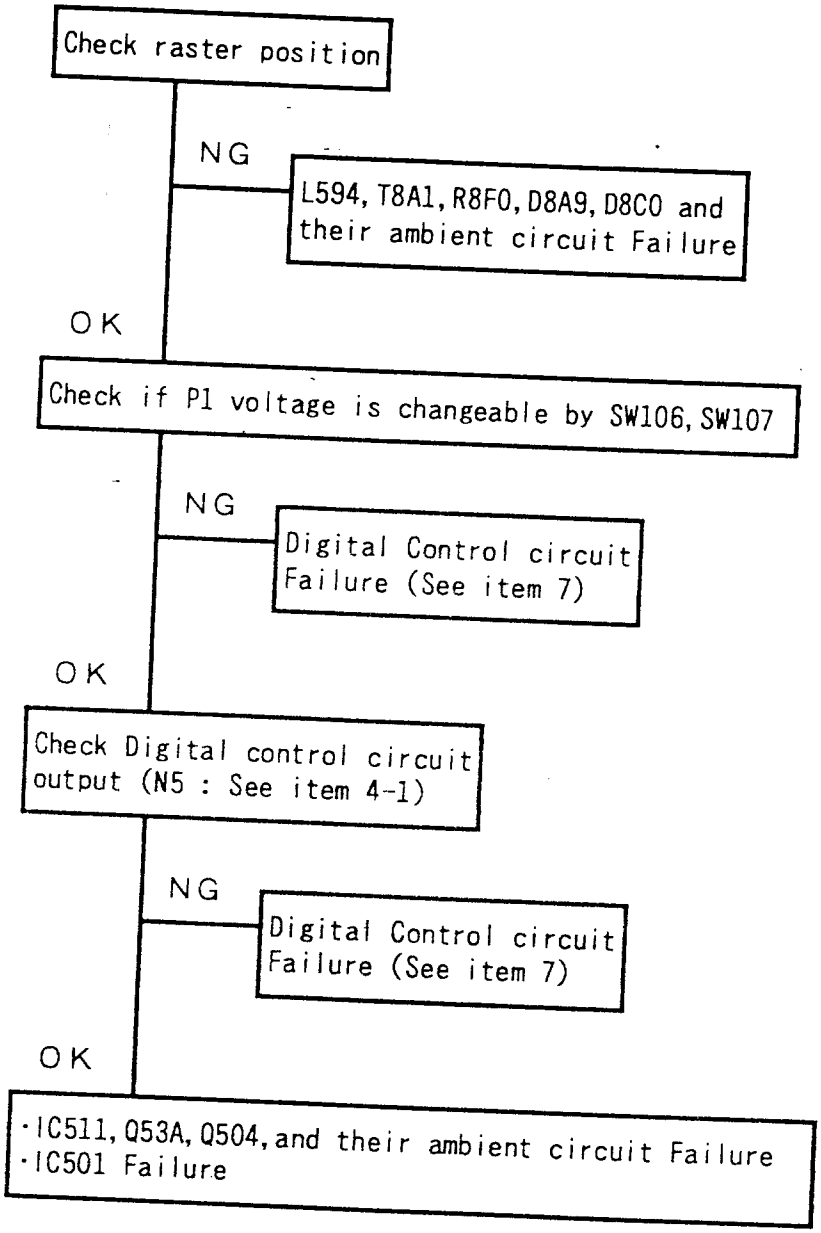
4-2) Vertical Size


Check if P5 voltage is changeable by SW104, SW105
NG
Digital Control circuit Failure (See item 7)
OK
Check Digital Control circuit output (N8~N11) See Fig. 3
NG
Digital Control circuit Failure (See item 7)
OK
·V OSC/DEF circuit Failure (See item 6)

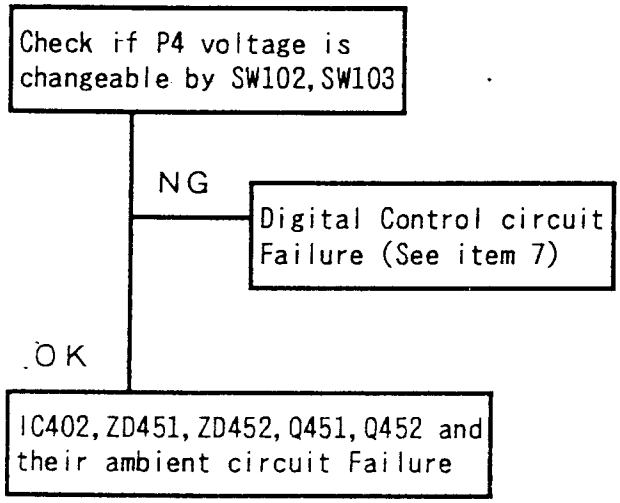


(TTL level output)
Fig. 3

4-3) Horizontal position

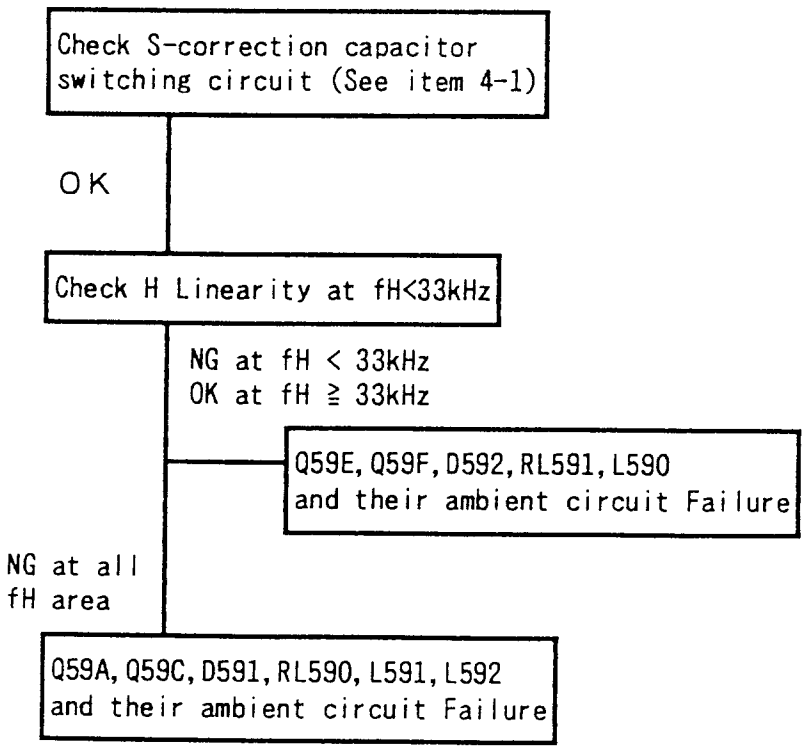

Check raster position
NG
L594, T8A1, R8F0, D8A9, D8C0 and their ambient circuit Failure
OK
Check if P1 voltage is changeable by SW106, SW107
NG
Digital Control circuit Failure (See item 7)
OK
Check Digital control circuit output (N5 : See item 4-1)
NG
Digital Control circuit Failure (See item 7)
OK
·IC511, Q53A, Q504, and their ambient circuit Failure
·IC501 Failure

4-4) Vertical Position


Check if P4 voltage is changeable by SW102, SW103
NG
Digital Control circuit Failure (See item 7)
OK
IC402, ZD451, ZD452, Q451, Q452 and their ambient circuit Failure

4-5) Poor Linearity

4-5-1) Horizontal

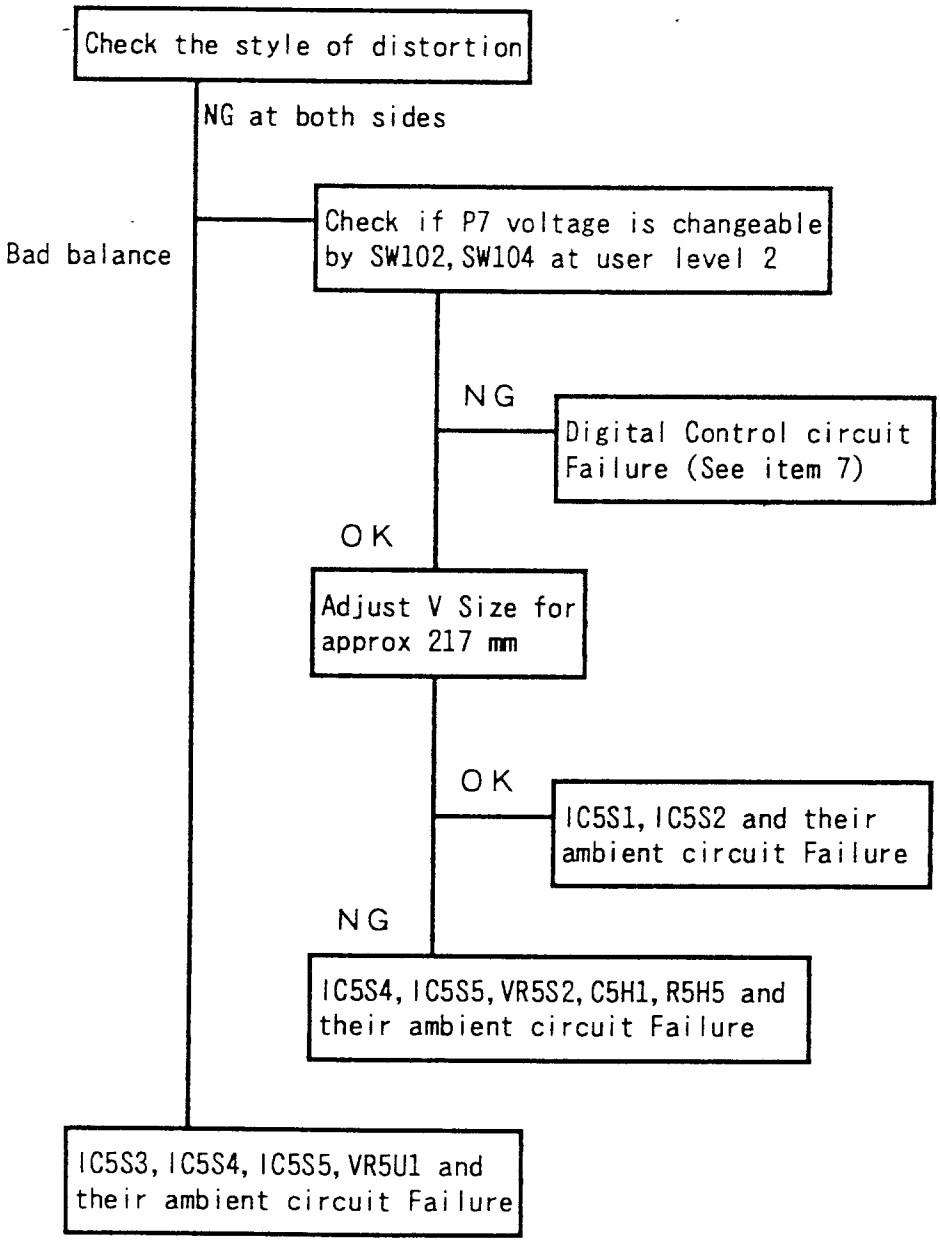

Check S-correction capacitor switching circuit (See item 4-1)
OK
Check H Linearity at fH<33kHz
NG at fH < 33kHz
OK at fH ≧ 33kHz
Q59E, Q59F, D592, RL591, L590 and their ambient circuit Failure
NG at all fH area
Q59A, Q59C, D591, RL590, L591, L592 and their ambient circuit Failure

4-5-2) Vertical

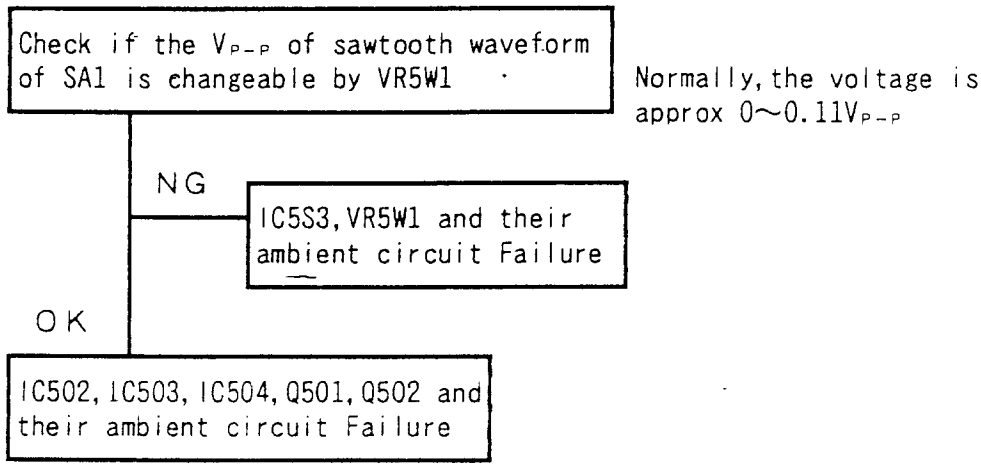
C410, VR441, IC431 and their ambient circuit Failure

4-6) Distortion Correction circuit Fault

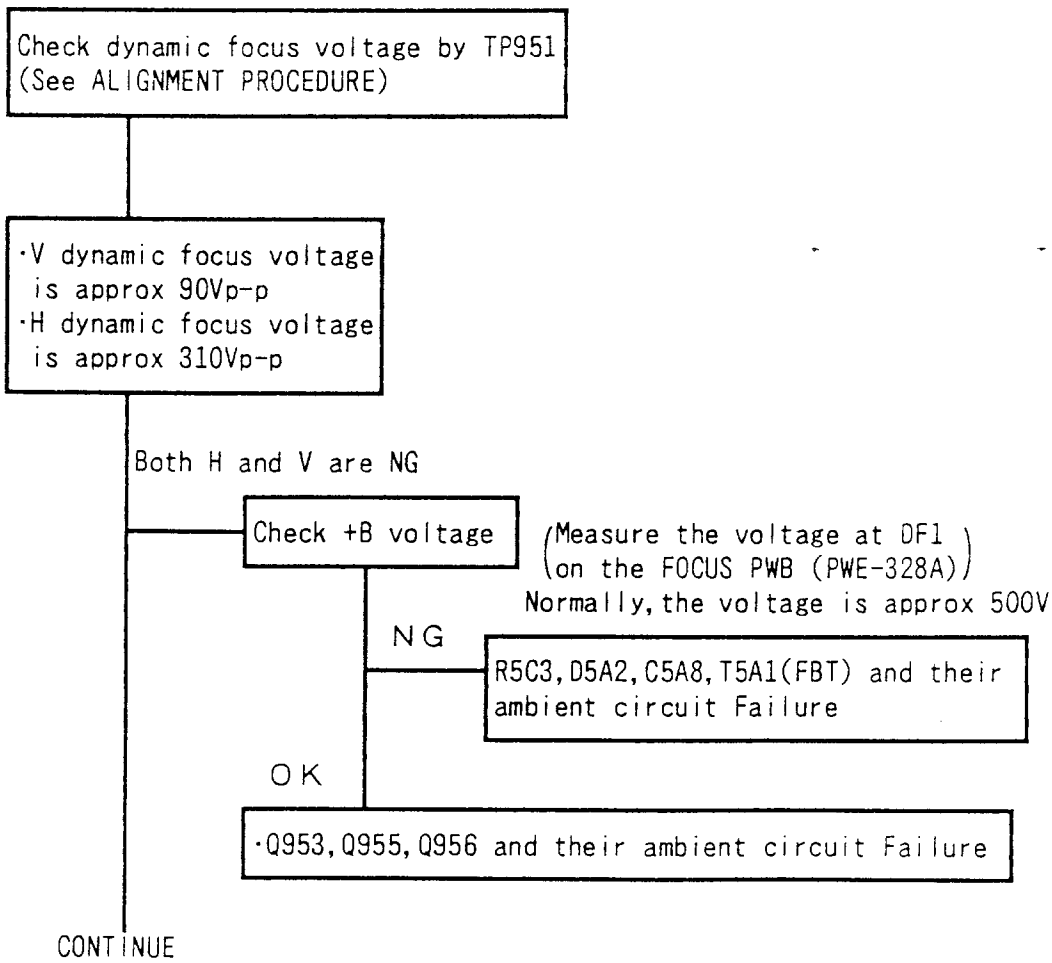
4-6-1) Side pin cushion correction circuit

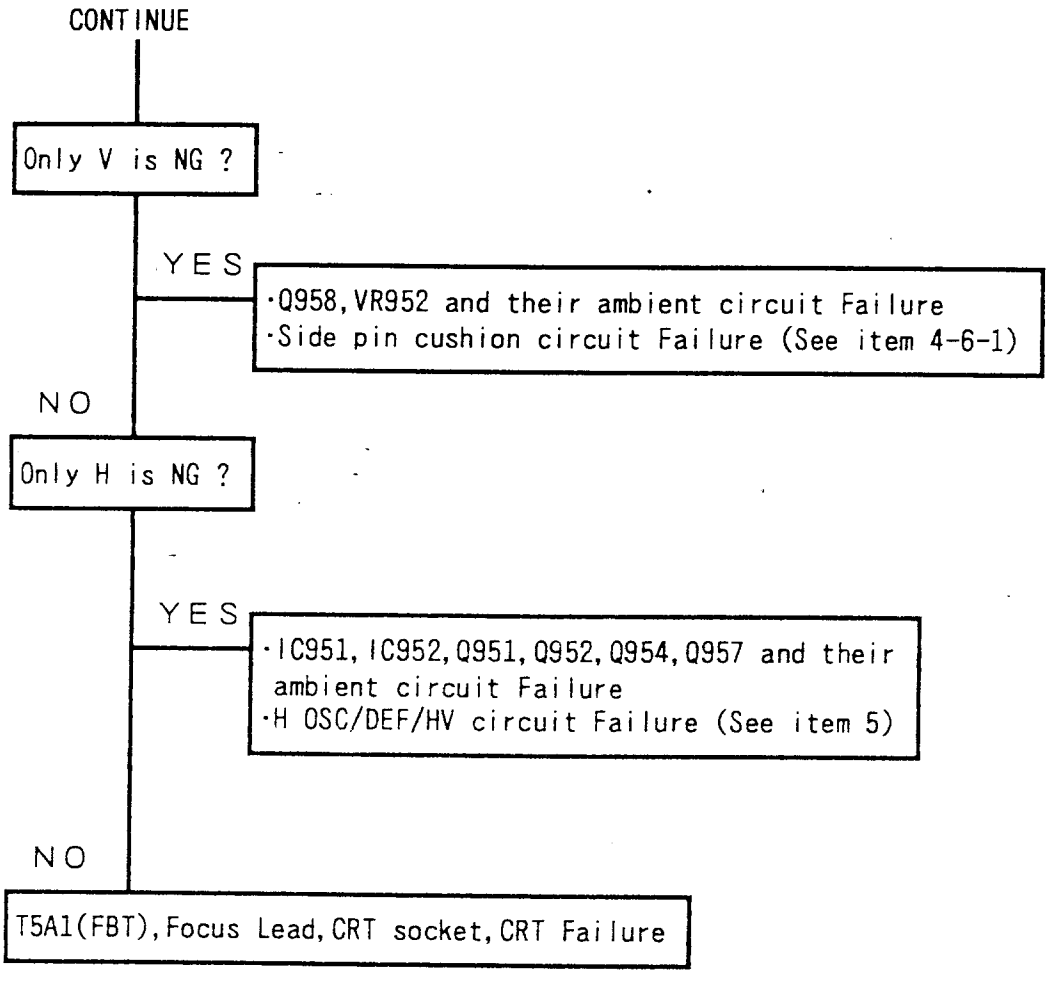

Check the style of distortion
NG at both sides
Bad balance
Check if P7 voltage is changeable by SW102, SW104 at user level 2
NG
Digital Control circuit Failure (See item 7)
OK
Adjust V Size for approx 217 mm
OK
IC5S1, IC5S2 and their ambient circuit Failure
NG
IC5S4, IC5S5, VR5S2, C5H1, R5H5 and their ambient circuit Failure
IC5S3, IC5S4, IC5S5, VR5U1 and their ambient circuit Failure

4-6-2) Parallelogram distortion correction circuit

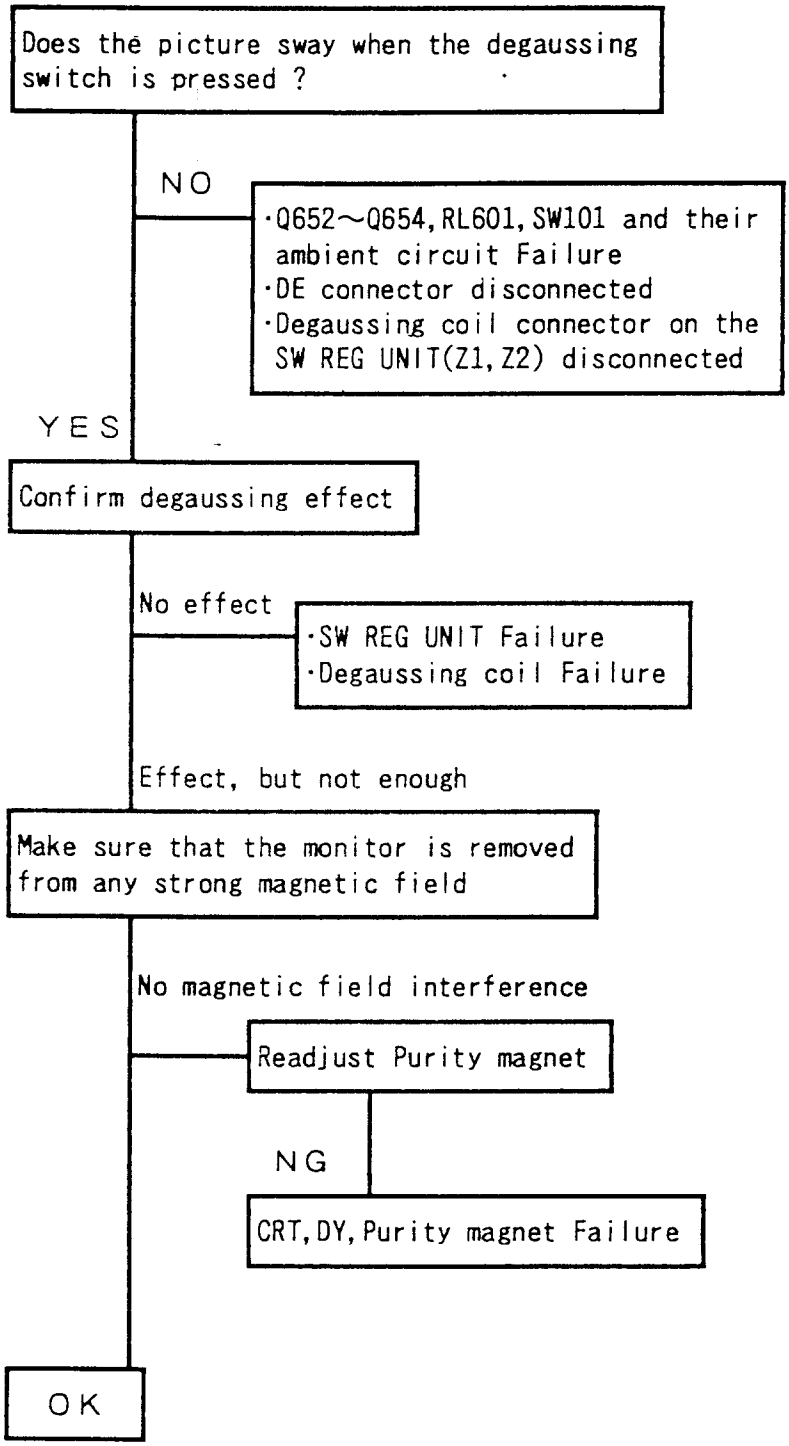

Check if the V_{P-P} of sawtooth waveform of SA1 is changeable by VR5W1
Normally, the voltage is approx 0~0.11V_{P-P}
NG
IC5S3, VR5W1 and their ambient circuit Failure
OK
IC502, IC503, IC504, Q501, Q502 and their ambient circuit Failure

4-7) Poor Focus


Check dynamic focus voltage by TP951 (See ALIGNMENT PROCEDURE)
·V dynamic focus voltage is approx 90Vp-p
·H dynamic focus voltage is approx 310Vp-p
Both H and V are NG
Check +B voltage
(Measure the voltage at DF1 on the FOCUS PWB (PWE-328A))
Normally, the voltage is approx 500V
NG
R5C3, D5A2, C5A8, T5A1(FBT) and their ambient circuit Failure
OK
·Q953, Q955, Q956 and their ambient circuit Failure
CONTINUE

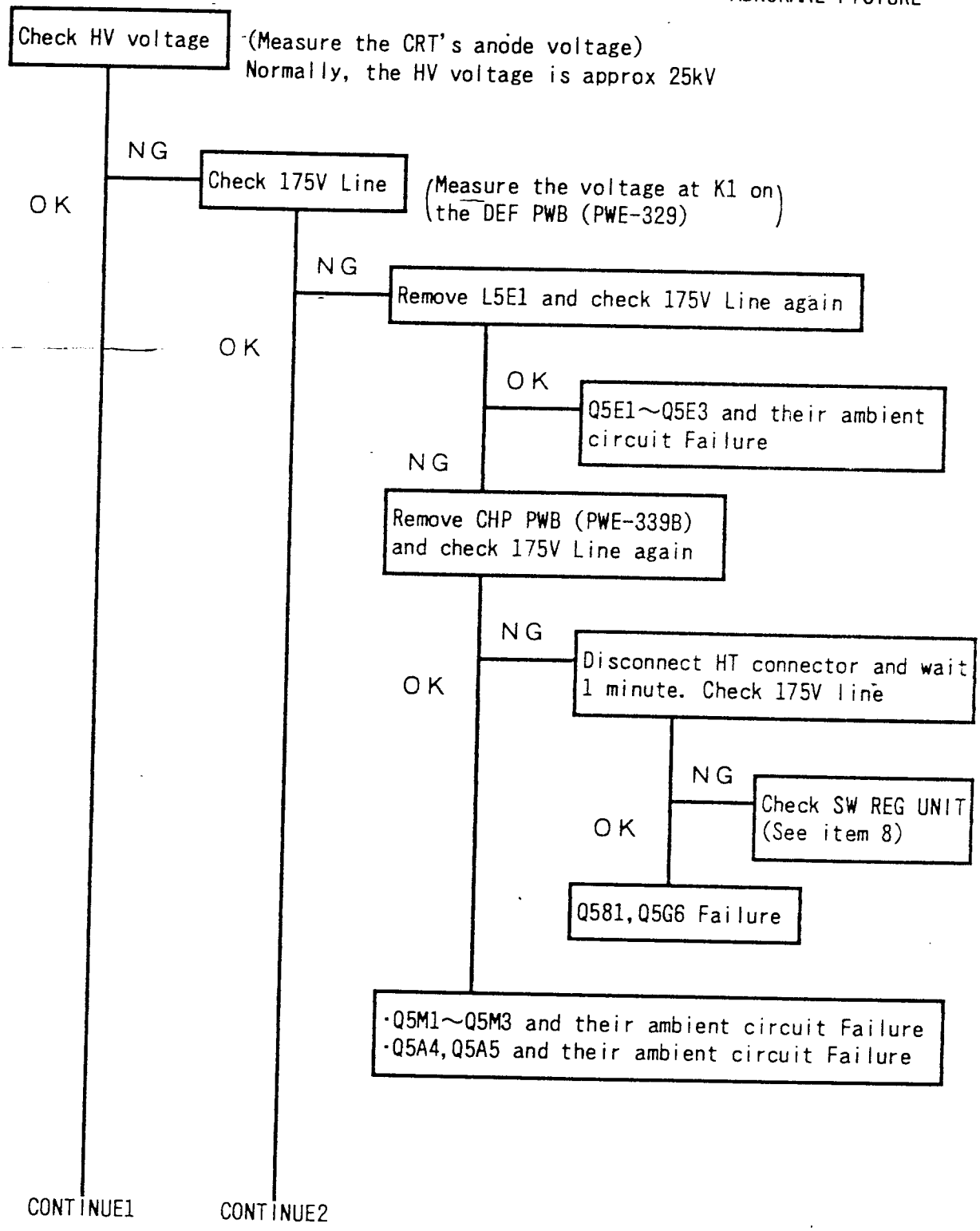

CONTINUE
Only V is NG ?
YES
·Q958, VR952 and their ambient circuit Failure
·Side pin cushion circuit Failure (See item 4-6-1)
NO
Only H is NG ?
YES
·IC951, IC952, Q951, Q952, Q954, Q957 and their ambient circuit Failure
·H OSC/DEF/HV circuit Failure (See item 5)
NO
T5A1(FBT), Focus Lead, CRT socket, CRT Failure

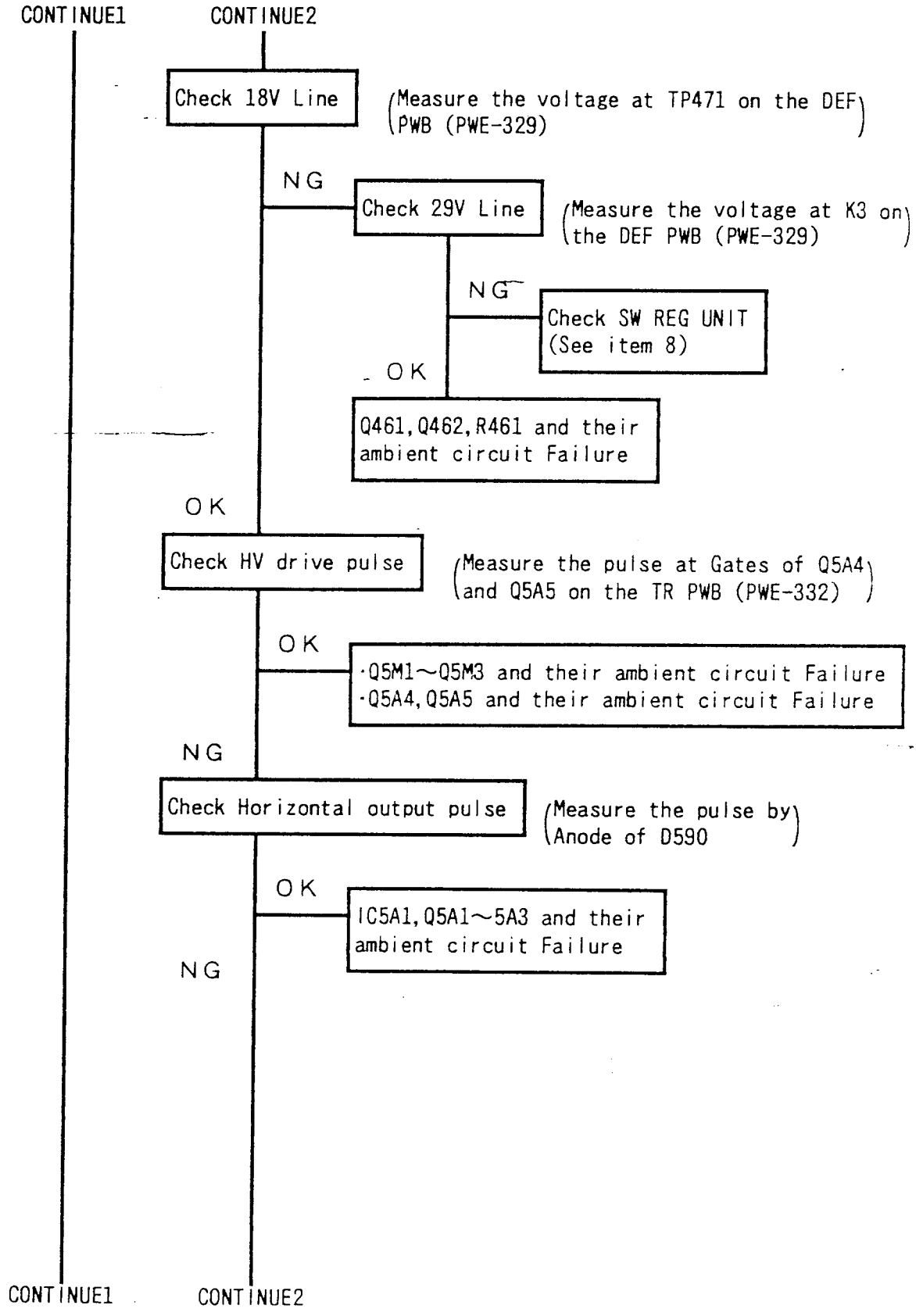
4-8) Impurity On CRT Screen

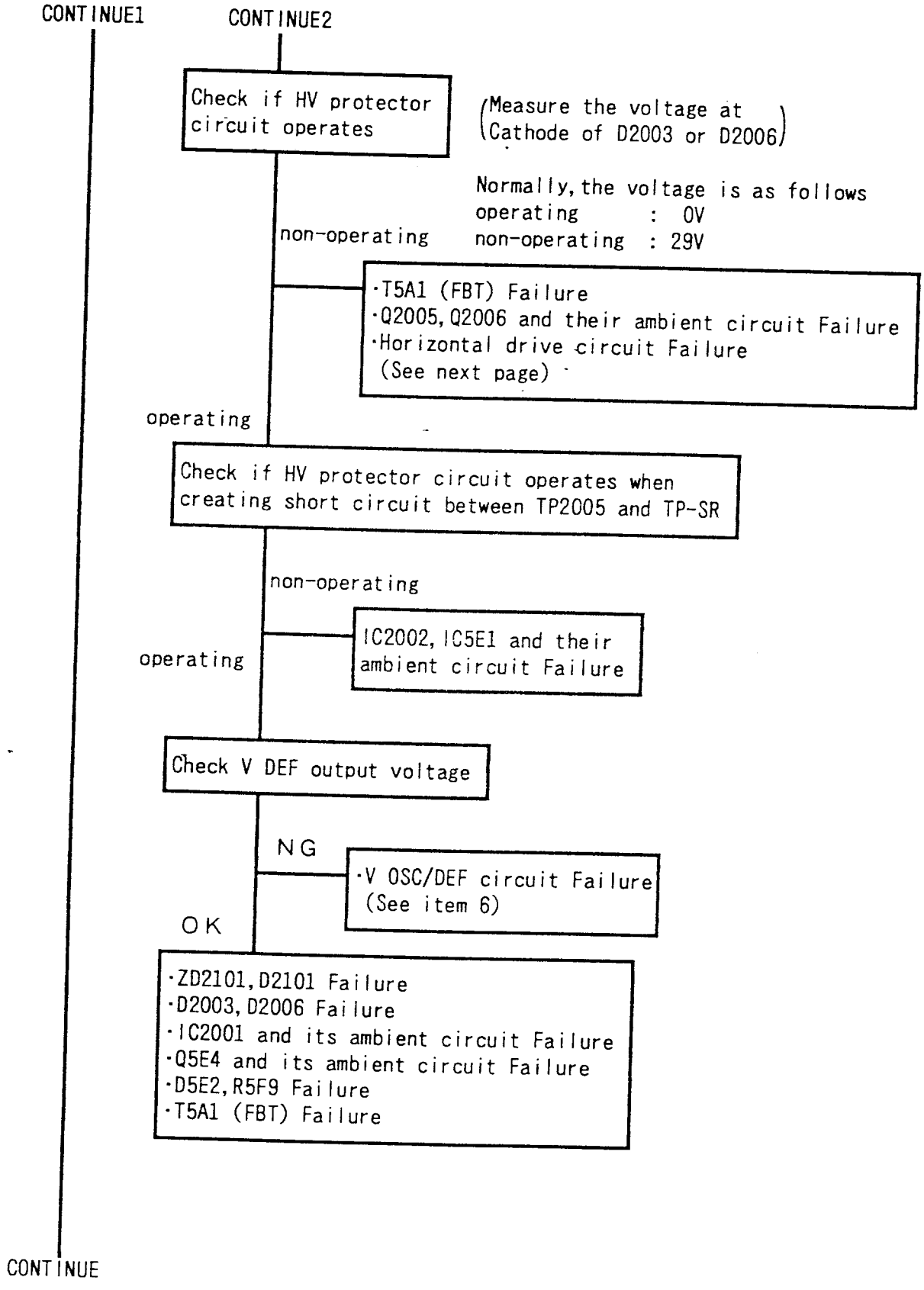

Does the picture sway when the degaussing switch is pressed ?
NO
·Q652~Q654, RL601, SW101 and their ambient circuit Failure
·DE connector disconnected
·Degaussing coil connector on the SW REG UNIT(Z1, Z2) disconnected
YES
Confirm degaussing effect
No effect
·SW REG UNIT Failure
·Degaussing coil Failure
Effect, but not enough
Make sure that the monitor is removed from any strong magnetic field
No magnetic field interference
Readjust Purity magnet
NG
CRT, DY, Purity magnet Failure
OK

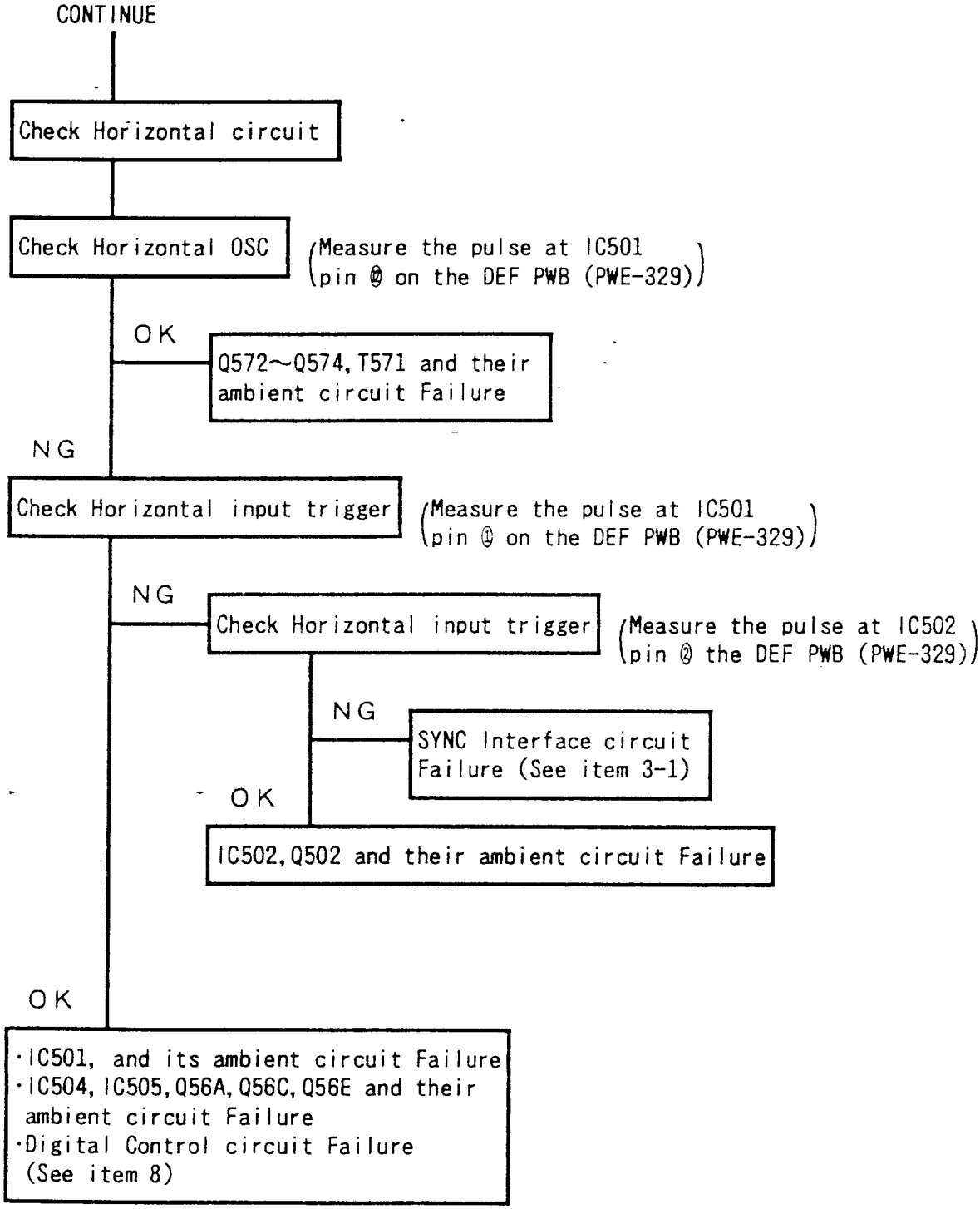
5. H OSC/DEF/HV CIRCUIT FAULT

NO RASTER
UNSTABLE PICTURE
ABNORMAL PICTURE




CONTINUE1
CONTINUE2
Check 18V Line
(Measure the voltage at TP471 on the DEF PWB (PWE-329)
NG
Check 29V Line
(Measure the voltage at K3 on the DEF PWB (PWE-329)
NG
Check SW REG UNIT (See item 8)
OK
Q461, Q462, R461 and their ambient circuit Failure
OK
Check HV drive pulse
(Measure the pulse at Gates of Q5A4 and Q5A5 on the TR PWB (PWE-332)
OK
·Q5M1~Q5M3 and their ambient circuit Failure
·Q5A4, Q5A5 and their ambient circuit Failure
NG
Check Horizontal output pulse
(Measure the pulse by Anode of D590
OK
IC5A1, Q5A1~5A3 and their ambient circuit Failure
NG
CONTINUE1
CONTINUE2

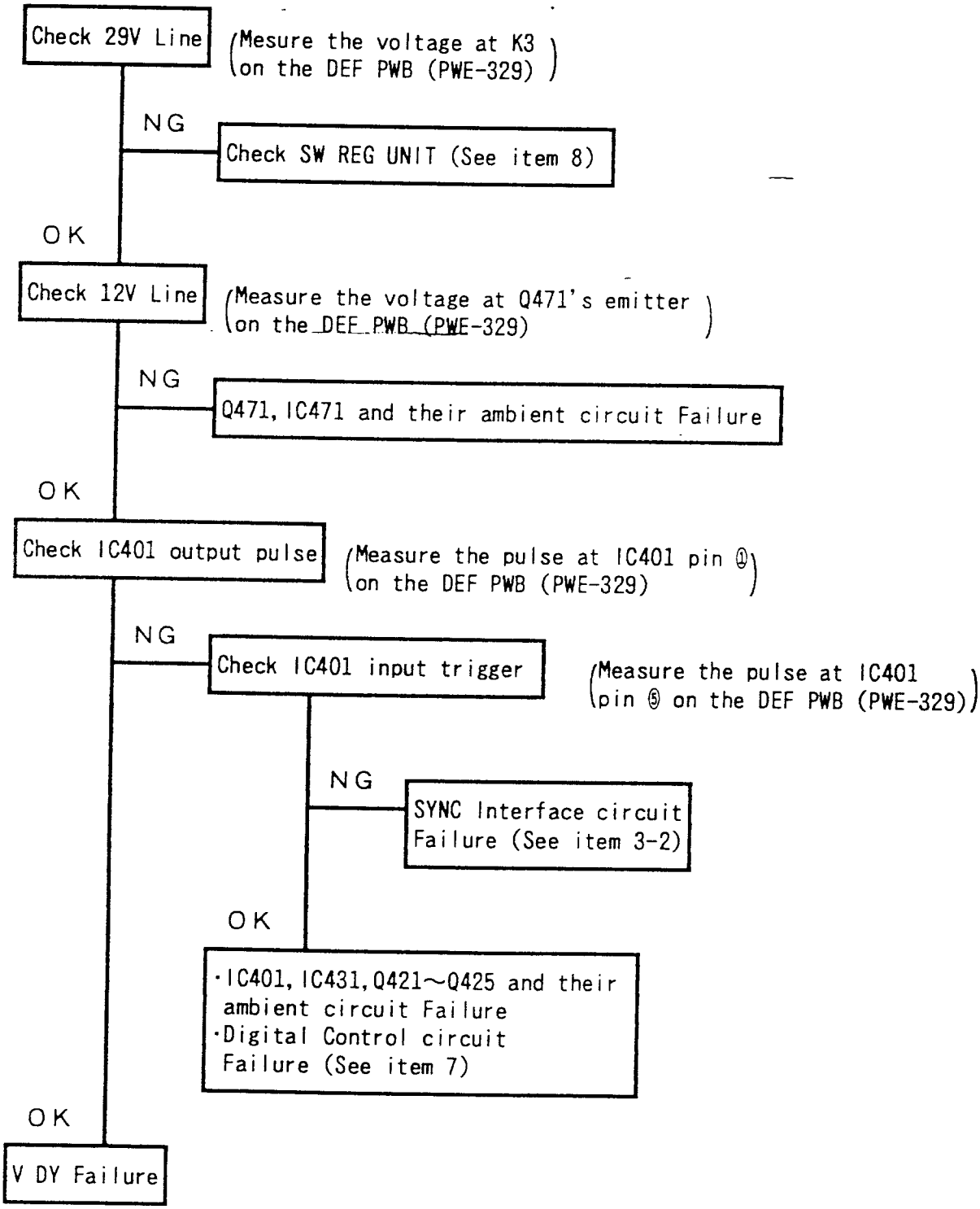

CONTINUE1
CONTINUE2
Check if HV protector circuit operates
(Measure the voltage at Cathode of D2003 or D2006)
Normally, the voltage is as follows
operating : 0V
non-operating : 29V
non-operating
·T5A1 (FBT) Failure
·Q2005, Q2006 and their ambient circuit Failure
·Horizontal drive circuit Failure
(See next page)
operating
Check if HV protector circuit operates when creating short circuit between TP2005 and TP-SR
non-operating
IC2002, IC5E1 and their ambient circuit Failure
operating
Check V DEF output voltage
NG
·V OSC/DEF circuit Failure
(See item 6)
OK
·ZD2101, D2101 Failure
·D2003, D2006 Failure
·IC2001 and its ambient circuit Failure
·Q5E4 and its ambient circuit Failure
·D5E2, R5F9 Failure
·T5A1 (FBT) Failure
CONTINUE


CONTINUE
Check Horizontal circuit
Check Horizontal OSC
(Measure the pulse at IC501 pin ⑫ on the DEF PWB (PWE-329))
OK
Q572~Q574, T571 and their ambient circuit Failure
NG
Check Horizontal input trigger
(Measure the pulse at IC501 pin ⑪ on the DEF PWB (PWE-329))
NG
Check Horizontal input trigger
(Measure the pulse at IC502 pin ⑫ the DEF PWB (PWE-329))
NG
SYNC Interface circuit Failure (See item 3-1)
OK
IC502, Q502 and their ambient circuit Failure
OK
·IC501, and its ambient circuit Failure
·IC504, IC505, Q56A, Q56C, Q56E and their ambient circuit Failure
·Digital Control circuit Failure (See item 8)

NOTE 1. Q5G6 and Q581 will be damage at same time.
2. Q5M3 and Q5A4 or Q5A5 will be damage at same time.

6. V OSC/DEF CIRCUIT FAULT

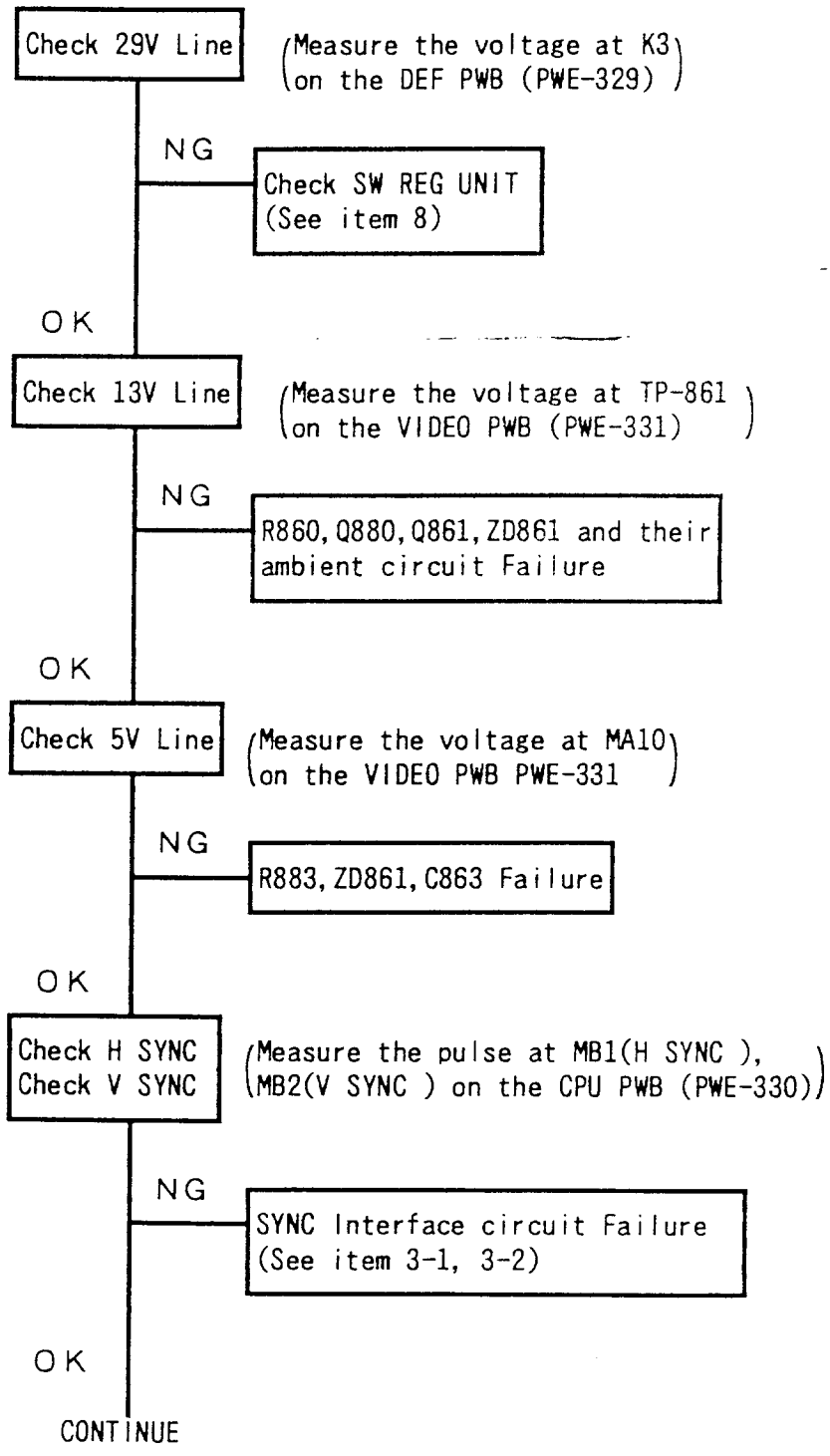
NO RASTER
UNSTABLE PICTURE
ABNORMAL PICTURE


Check 29V Line
(Mesure the voltage at K3 on the DEF PWB (PWE-329))
NG
Check SW REG UNIT (See item 8)
OK
Check 12V Line
(Measure the voltage at Q471's emitter on the DEF PWB (PWE-329))
NG
Q471, IC471 and their ambient circuit Failure
OK
Check IC401 output pulse
(Measure the pulse at IC401 pin ① on the DEF PWB (PWE-329))
NG
Check IC401 input trigger
(Measure the pulse at IC401 pin ⑤ on the DEF PWB (PWE-329))
NG
SYNC Interface circuit Failure (See item 3-2)
OK
·IC401, IC431, Q421~Q425 and their ambient circuit Failure
·Digital Control circuit Failure (See item 7)
OK
V DY Failure

7. DIGITAL CONTROL CIRCUIT FAULT

UNSTABLE PICTURE
ABNORMAL PICTURE

7-1) Digital Control Error


Check 29V Line
(Measure the voltage at K3 on the DEF PWB (PWE-329))
NG
Check SW REG UNIT (See item 8)
OK
Check 13V Line
(Measure the voltage at TP-861 on the VIDEO PWB (PWE-331))
NG
R860, Q880, Q861, ZD861 and their ambient circuit Failure
OK
Check 5V Line
(Measure the voltage at MA10 on the VIDEO PWB PWE-331)
NG
R883, ZD861, C863 Failure
OK
Check H SYNC
Check V SYNC
(Measure the pulse at MB1(H SYNC), MB2(V SYNC) on the CPU PWB (PWE-330))
NG
SYNC Interface circuit Failure (See item 3-1, 3-2)
OK
CONTINUE

CONTINUE

Check input signal ID chart
(See Fig. 4 on the next page)

NG → SYNC Interface circuit Failure
(See item 3-1, 3-2)

OK → IC801, IC802, IC803, IC805, X1 and their ambient circuit Failure

7-2) User Control Error

Check user control ID
(See Fig. 5)

NG → ·CONTROL PWB (PWE-328C) Failure

OK → Digital Control Error
(See item 7-1)

FUNCTION	UL	C2	C3	C4	C5	C6	C7
H WIDTH INCREASE B INTENSITY DOWN B SUB-BRIGHT DOWN	1 2 3	H	L	L	L	H	L
H WIDTH DECREASE R INTENSITY DOWN R SUB-BRIGHT DOWN	1 2 3					L	H
H POSITION UP (RIGHT) B INTENSITY UP B SUB-BRIGHT UP	1 2 3	L	H	L	L	H	L
H POSITION DOWN (LEFT) R INTENSITY UP R SUB-BRIGHT UP	1 2 3					L	H
V HGT INCREASE G INTENSITY DOWN G SUB-BRIGHT DOWN	1 2 3	L	L	H	L	H	L
V HGT DECREASE SIDE-PIN DOWN (PIN) NO FUNCTION	1 2 3					L	H
V POSITION UP G INTENSITY UP G SUB-BRIGHT UP	1 2 3	L	L	L	H	H	L
V POSITION DOWN SIDE-PIN UP (BARREL) NO FUNCTION	1 2 3					L	H

NOTE C2~C7 : TTL level

Fig. 5

INPUT SIGNAL	MB1 (fH)	MB2 (fV)	MA2 (HP)	MA3 (VP)	MA4 (VE)	INPUT SIGNAL	MB1 (fH)	MB2 (fV)	MA2 (HP)	MA3 (VP)	MA4 (VE)
VGA350	②	—	L	H	H	USER1	①	—	—	—	—
VGA400	②	—	H	L	H	USER2	②	—	—	—	—
VGA480	②	—	H	H	H	USER3	③	②	—	—	—
800*600(56)	③	①	—	—	—	USER4	③	④	L	H	H
MAC-II	③	③	—	—	—	USER5	③	④	H	L	H
8514A	③	④	L	L	H	USER6	③	④	H	H	H
1024*768(60)	⑤	⑤	—	—	—	USER7	③	④	—	—	—
800*600(72)	⑤	⑥	—	—	—	USER8	④	⑤	—	—	—
1024*768(70)	⑦	—	—	—	—	USER9	④	⑥	—	—	—
1280*1024(60)	⑨	⑤	—	—	—	USER10	⑥	—	—	—	—
1280*1024(70)	⑪	⑦	—	—	—	USER11	⑧	—	—	—	—
1280*1024(74)	⑪	⑧	—	—	—	USER12	⑨	⑥	—	—	—
						USER13	⑩	—	—	—	—

Note 1. MB1

① 27kHz ≦ f_H < 29kHz
② 29kHz ≦ f_H < 33kHz
③ 33kHz ≦ f_H < 43kHz
④ 43kHz ≦ f_H < 47kHz
⑤ 47kHz ≦ f_H < 50kHz
⑥ 50kHz ≦ f_H < 54kHz
⑦ 54kHz ≦ f_H < 58kHz
⑧ 58kHz ≦ f_H < 62kHz
⑨ 62kHz ≦ f_H < 66kHz
⑩ 66kHz ≦ f_H < 71kHz
⑪ 71kHz ≦ f_H ≦ 79kHz

MB2

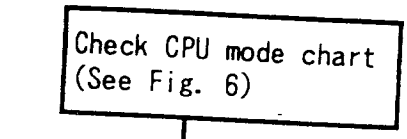
① 55Hz ≦ f_V < 58Hz
② 58Hz ≦ f_V < 63Hz
③ 63Hz ≦ f_V < 70Hz
④ 70Hz ≦ f_V ≦ 90Hz
⑤ 55Hz ≦ f_V < 63Hz
⑥ 63Hz ≦ f_V ≦ 90Hz
⑦ 55Hz ≦ f_V < 73Hz
⑧ 73Hz ≦ f_V ≦ 90Hz

2. MA2～MA4 :TTL level

3. "—" means any level enable

Fig. 4

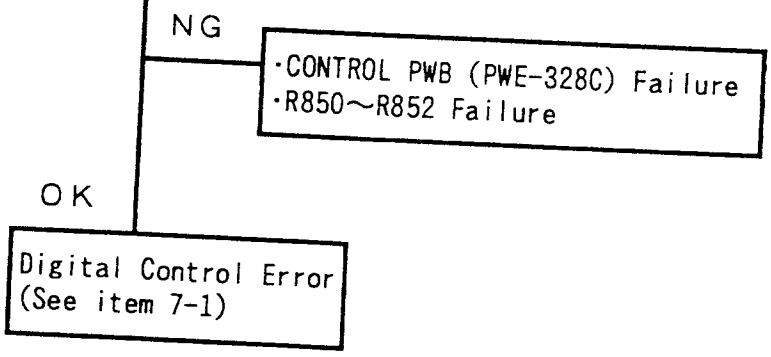
7-3) Memory Access Error



FUNCTION	IC801		
	#52	#53	#54
USER CONTROL MODE	L	L	L
FACTORY ADJUST MODE1 (PICTURE DATA)	L	L	H
FACTORY ADJUST MODE2 (COLOR DATA)	L	H	L
FACTORY ADJUST MODE3 (PICTURE DATA)	L	H	H
INITIALIZING SIDE PIN DATA	H	L	L
SPECIAL ADJUST RESET FLAG	H	H	H

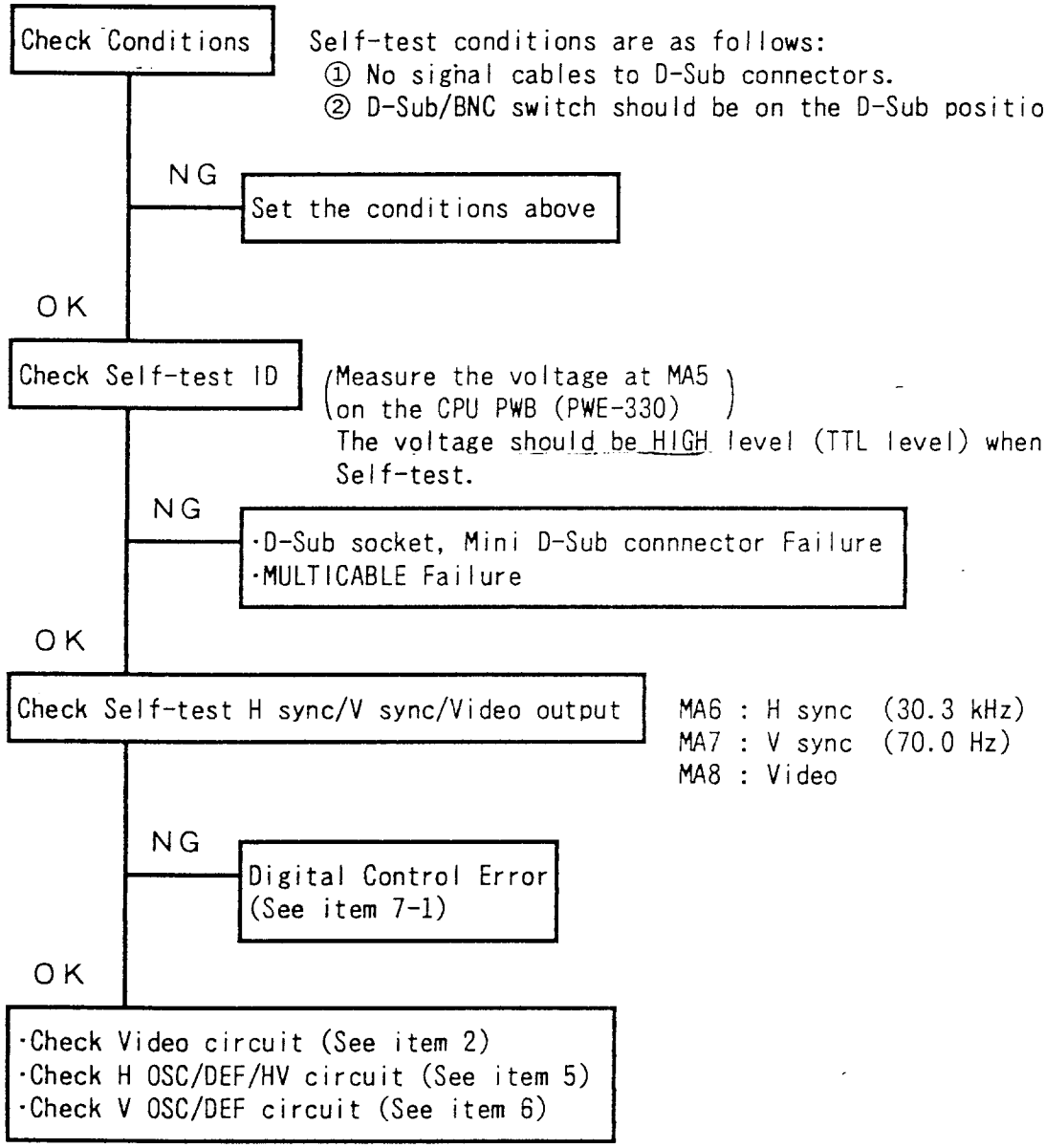
NOTE #52～#54 : TTL level

Fig. 6



(Cf). If two different signals are put into this same memory location, the most recent signal will be written to this memory and the previous signal erased. Therefore, an error could occur when the microprocessor will have the same ID coordinates for two different signals.

7-4) Self test Error


Check Conditions
Self-test conditions are as follows:
① No signal cables to D-Sub connectors.
② D-Sub/BNC switch should be on the D-Sub position.
NG
Set the conditions above
OK
Check Self-test ID
(Measure the voltage at MA5 on the CPU PWB (PWE-330))
The voltage should be HIGH level (TTL level) when Self-test.
NG
·D-Sub socket, Mini D-Sub connnector Failure
·MULTICABLE Failure
OK
Check Self-test H sync/V sync/Video output
MA6 : H sync (30.3 kHz)
MA7 : V sync (70.0 Hz)
MA8 : Video
NG
Digital Control Error
(See item 7-1)
OK
·Check Video circuit (See item 2)
·Check H OSC/DEF/HV circuit (See item 5)
·Check V OSC/DEF circuit (See item 6)

8. SWITCHING REGULATOR UNIT (JC-1741UMA/B/R/B(EE) (JC-1742UMA)

K1 → 175V
K2 → 90V VERIFY PROPER VOLTAGE LEVELS
K3 → 29V

NO

NO OUTPUT ANYWHERE

Turn the power switch off and wait 1 minute. Disconnect CN-K connector and insert dummy resistor so that rated current is added between K4-K1, K4-K3, and K4-K2. (Fig. 7) Next, turn the power on and check 175V, 90, 29V again.

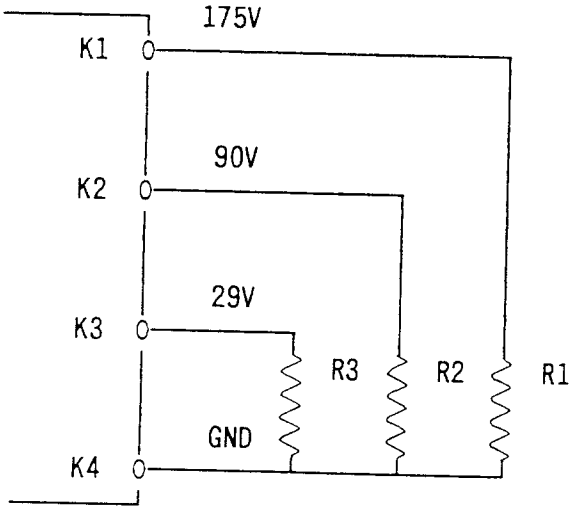
OK

MAIN PWB or CRT PWB FAILURE

NG

SWITCHING REGULATOR UNIT

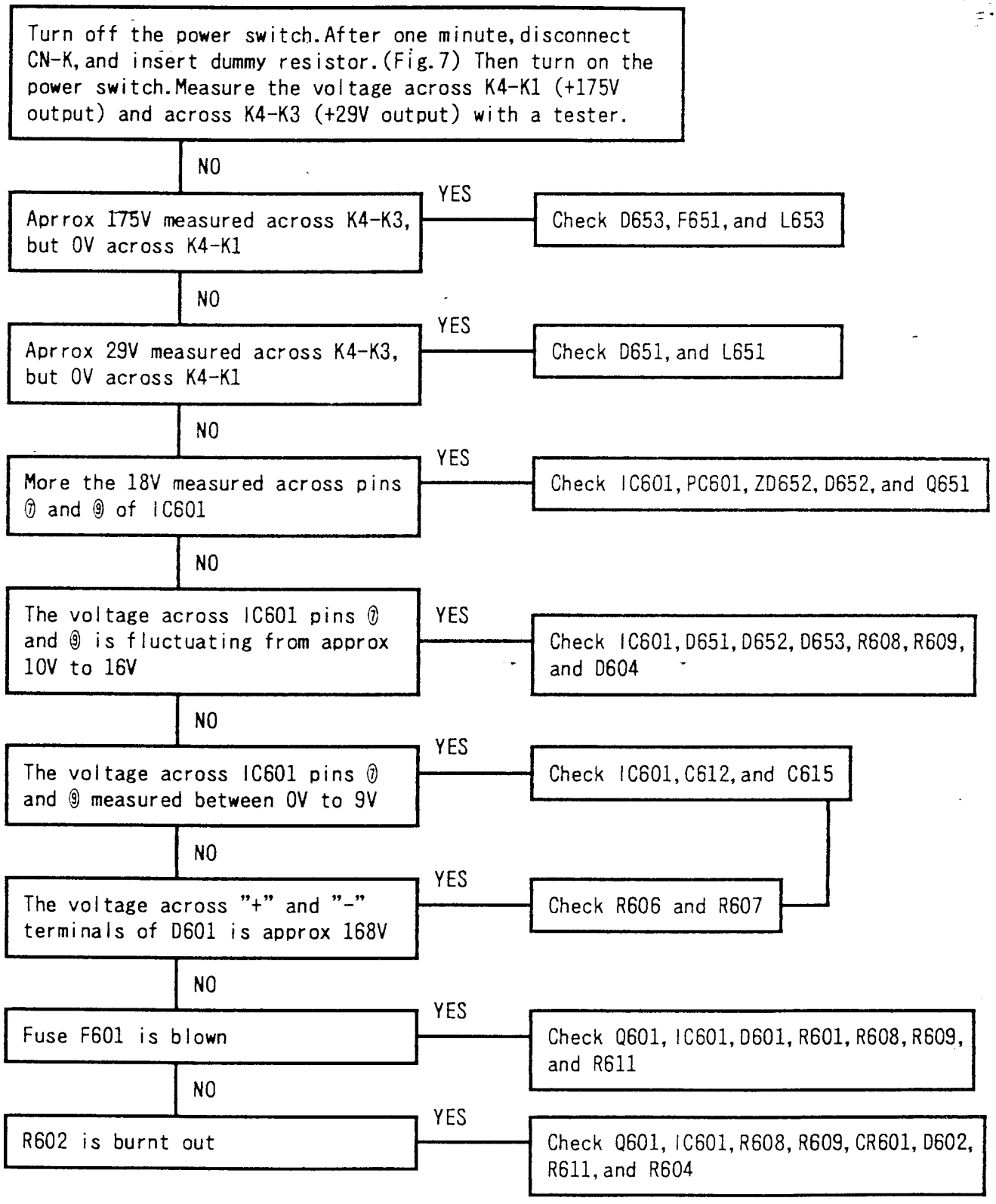
REFER TO ITEM 8-1, 8-2



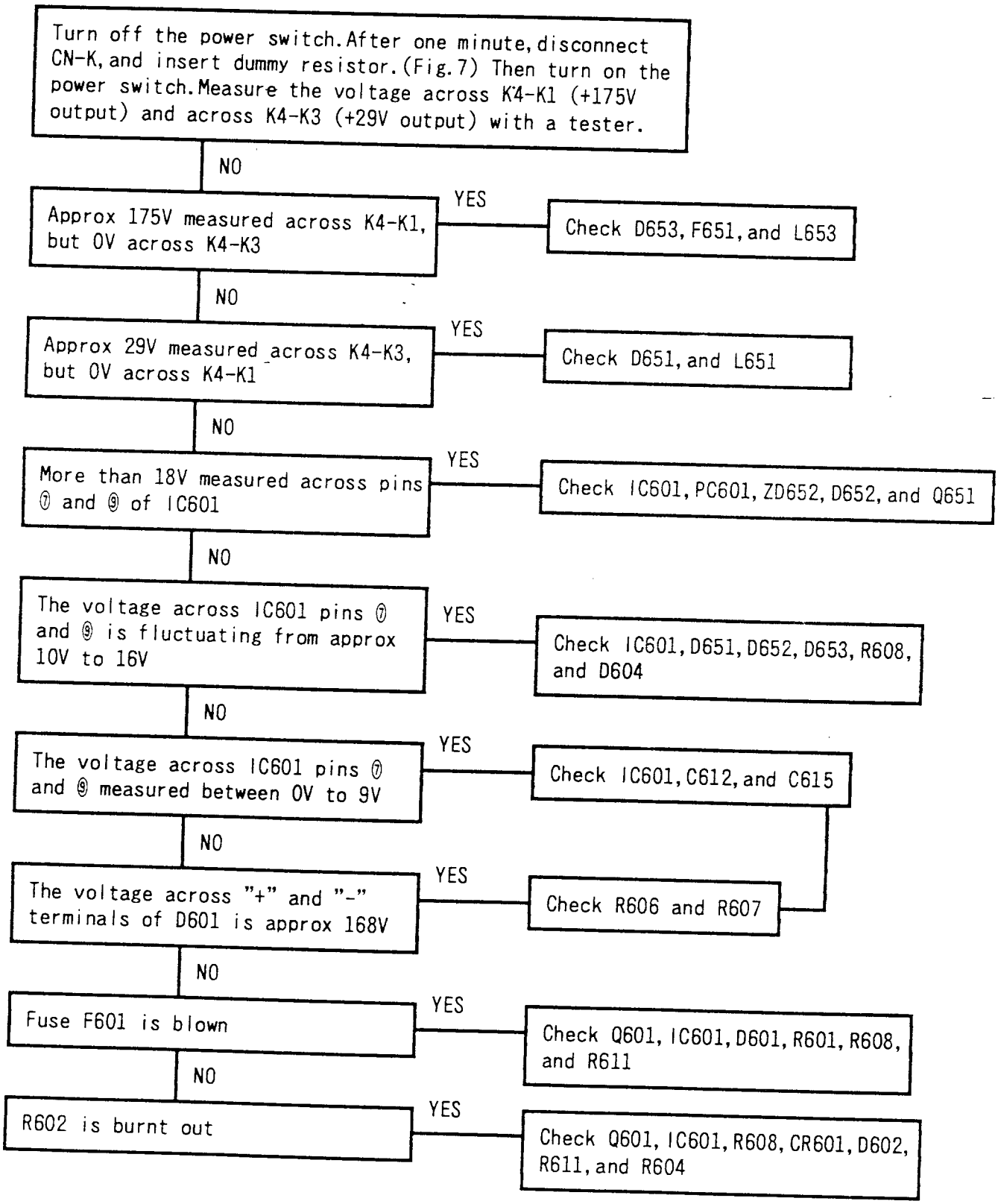
175 V	260～610mA (673.1Ω～286.9Ω)
90 V	0～390mA (230.8Ω～OPEN)
29 V	750～1600mA (38.7Ω～18.1Ω)

Fig. 7 Rated load current at K1, K2, K3

8-1) THE SWITCHING REGULATOR UNIT FAILURE (JC-1741UMA/JC-1742UMA)


Turn off the power switch. After one minute, disconnect CN-K, and insert dummy resistor. (Fig. 7) Then turn on the power switch. Measure the voltage across K4-K1 (+175V output) and across K4-K3 (+29V output) with a tester.
NO
Aprrox 175V measured across K4-K3, but 0V across K4-K1
YES
Check D653, F651, and L653
NO
Aprrox 29V measured across K4-K3, but 0V across K4-K1
YES
Check D651, and L651
NO
More the 18V measured across pins ⑦ and ⑨ of IC601
YES
Check IC601, PC601, ZD652, D652, and Q651
NO
The voltage across IC601 pins ⑦ and ⑨ is fluctuating from approx 10V to 16V
YES
Check IC601, D651, D652, D653, R608, R609, and D604
NO
The voltage across IC601 pins ⑦ and ⑨ measured between 0V to 9V
YES
Check IC601, C612, and C615
NO
The voltage across "+" and "-" terminals of D601 is approx 168V
YES
Check R606 and R607
NO
Fuse F601 is blown
YES
Check Q601, IC601, D601, R601, R608, R609, and R611
NO
R602 is burnt out
YES
Check Q601, IC601, R608, R609, CR601, D602, R611, and R604

8-2) THE SWITCHING REGULATOR UNIT FAILURE (JC-1741UMB/R/B(EE))


Turn off the power switch. After one minute, disconnect CN-K, and insert dummy resistor. (Fig. 7) Then turn on the power switch. Measure the voltage across K4-K1 (+175V output) and across K4-K3 (+29V output) with a tester.
NO
Approx 175V measured across K4-K1, but 0V across K4-K3
YES
Check D653, F651, and L653
NO
Approx 29V measured across K4-K3, but 0V across K4-K1
YES
Check D651, and L651
NO
More than 18V measured across pins ⑦ and ⑨ of IC601
YES
Check IC601, PC601, ZD652, D652, and Q651
NO
The voltage across IC601 pins ⑦ and ⑨ is fluctuating from approx 10V to 16V
YES
Check IC601, D651, D652, D653, R608, and D604
NO
The voltage across IC601 pins ⑦ and ⑨ measured between 0V to 9V
YES
Check IC601, C612, and C615
NO
The voltage across "+" and "-" terminals of D601 is approx 168V
YES
Check R606 and R607
NO
Fuse F601 is blown
YES
Check Q601, IC601, D601, R601, R608, and R611
NO
R602 is burnt out
YES
Check Q601, IC601, R608, CR601, D602, R611, and R604

CIRCUIT DESCRIPTION

TABLE OF CONTENTS

	PAGE
1. INTERFACE CIRCUIT	71
1.1 REGULATOR	71
1.1.1 +12V REGULATOR	71
1.1.2 -12V REGULATOR	71
1.1.3 +6V REGULATOR	71
1.2 BNC/D-SUB SWITCHING CIRCUIT	74
1.3 SYNC INTERFACE CIRCUIT	75
1.4 SELF TEST CIRCUIT	77
2. VIDEO CIRCUIT	78
2.1 VIDEO SIGNAL AMPLIFIER	78
2.2 BRIGHTNESS AND CUT-OFF CIRCUIT	79
2.3 CATHODE CLAMP PULSE CIRCUIT AND VIDEO MUTE CIRCUIT	80
2.4 ABL CIRCUIT	81
3. DEFLECTION CIRCUIT	82
3.1. HORIZONTAL CIRCUIT	82
3.1.1 18V POWER SUPPLY	82
3.1.2 HORIZONTAL OSCILLATOR CIRCUIT	82
3.1.3 HORIZONTAL IMAGE POSITION CONTROL CIRCUIT	84
3.1.4 IMAGE DISTORTION CORRECTION CIRCUIT	87
3.1.5 HORIZONTAL CIRCUIT SYSTEM SWITCHING COMPARATOR CIRCUIT	87
3.1.6 HORIZONTAL DRIVE CIRCUIT	88
3.1.7 HORIZONTAL SIZE CONTROL CIRCUIT	89
3.2 HIGH VOLTAGE CIRCUIT	91
3.2.1 HIGH VOLTAGE DRIVE CIRCUIT	91
3.2.2 HIGH VOLTAGE OUTPUT CIRCUIT	92
3.2.3 +B CONTROL CIRCUIT	92
3.2.4 S-R CONTROL CIRCUIT	94
3.3 VERTICAL CIRCUIT	95
3.3.1 VERTICAL OSCILLATOR CIRCUIT	95
3.3.2 VERTICAL POSITION CIRCUIT	96
3.3.3 VERTICAL SIZE CIRCUIT	97
3.4 BLANKING CIRCUIT	98
3.4.1 HORIZONTAL BLANKING CIRCUIT	98
3.4.2 VERTICAL BLANKING CIRCUIT	98
3.5 PICTURE DISTORTION CORRECTION CIRCUIT	99
3.5.1 SIDE PIN CUSHION CIRCUIT	99
3.5.2 PARALLEL DISTORTION CORRECTION CIRCUIT	101
4. FOCUS CIRCUIT	101
5. CPU CIRCUIT	103
5.1 N-F/V FUNCTION	103
5.2 V-F/V FUNCTION	103
5.3 AUTOMATIC SIGNAL DISCRIMINATING FUNCTION	103
5.4 USER CONTROL FUNCTION	105
5.4.1 USER LEVEL 1	105
5.4.2 USER LEVEL 2	105
5.4.3 USER LEVEL 3	105
5.5 DATA MEMORY FUNCTION	107
5.6 VARIOUS SWICHING OUTPUT	107
5.6.1 HORIZONTAL SYSTEM	107
5.6.2 VERTICAL SYSTEM	107
6. SWITCHING REGULATOR UNIT	110
6.1 RECTIFYING AND SMOOTHING CIRCUIT	110
6.2.1 AUXILIARY POWER SUPPLY CIRCUIT (JC-1741UMA/JC1742UMA)	110
6.2.2 AUXILIARY POWER SUPPLY CIRCUIT (JC-1741UMB/B(EE)/R)	111
6.3 CONVERTER CIRCUIT	111
6.4 OUTPUT RECTIFYING AND SMOOTHING CIRCUIT	112
6.5 ERROR DETECTION AMPLIFIER CIRCUITS	112
6.6 OSCILLATING AND CONTROL CIRCUITS	113
6.7 OVER VOLTAGE PROTECTION	113
6.8 AUTO AND MANUAL DEGAUSSING CIRCUIT	114

1. Interface Circuit

1.1 Regulator

1.1.1 +12V Regulator

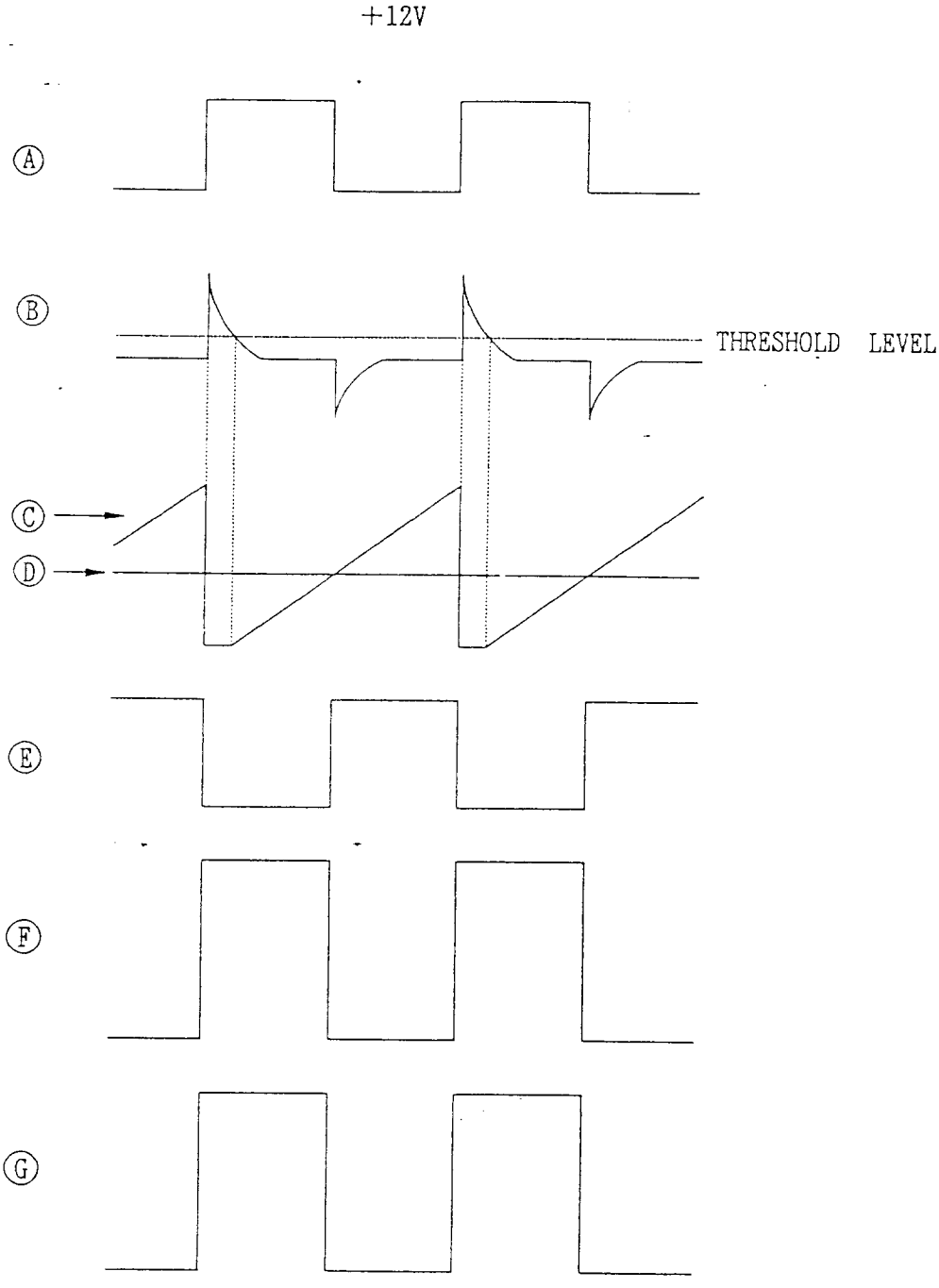
The horizontal oscillation pulse is fed to CN-X4 and differentiated by CA81 and the Q8A5's internal resistors to turn Q8A5 on and off. With Q8A6's discharge, a sawtooth wave is generated and then applied to pin ⑤ of IC842. This voltage is compared with DC voltage at pin ⑥ of IC8A2 a switching pulse is output to pin ⑦ of IC8A2. (The duty ratio of the switching pulse is determined by the DC level of pin ⑥ of IC8A2.)
The switching pulse is inverted by Q8A8 to switch Q8A9, and the 27Vp-p pulse is output to the source of Q8A9. The pulse of 27Vp-p is converted into DC by the smoothing circuit consisting of D8A7, T8A1, C8C1, C8C2, and L8A2. The DC level is controlled by the error amplifier connected to pin ⑥ of IC8A2. The error amplifier consists of VR8A1, IC8A1, other associated circuit. It controls the duty ratio of switching pulse.

1.1.2 -12V Regulator

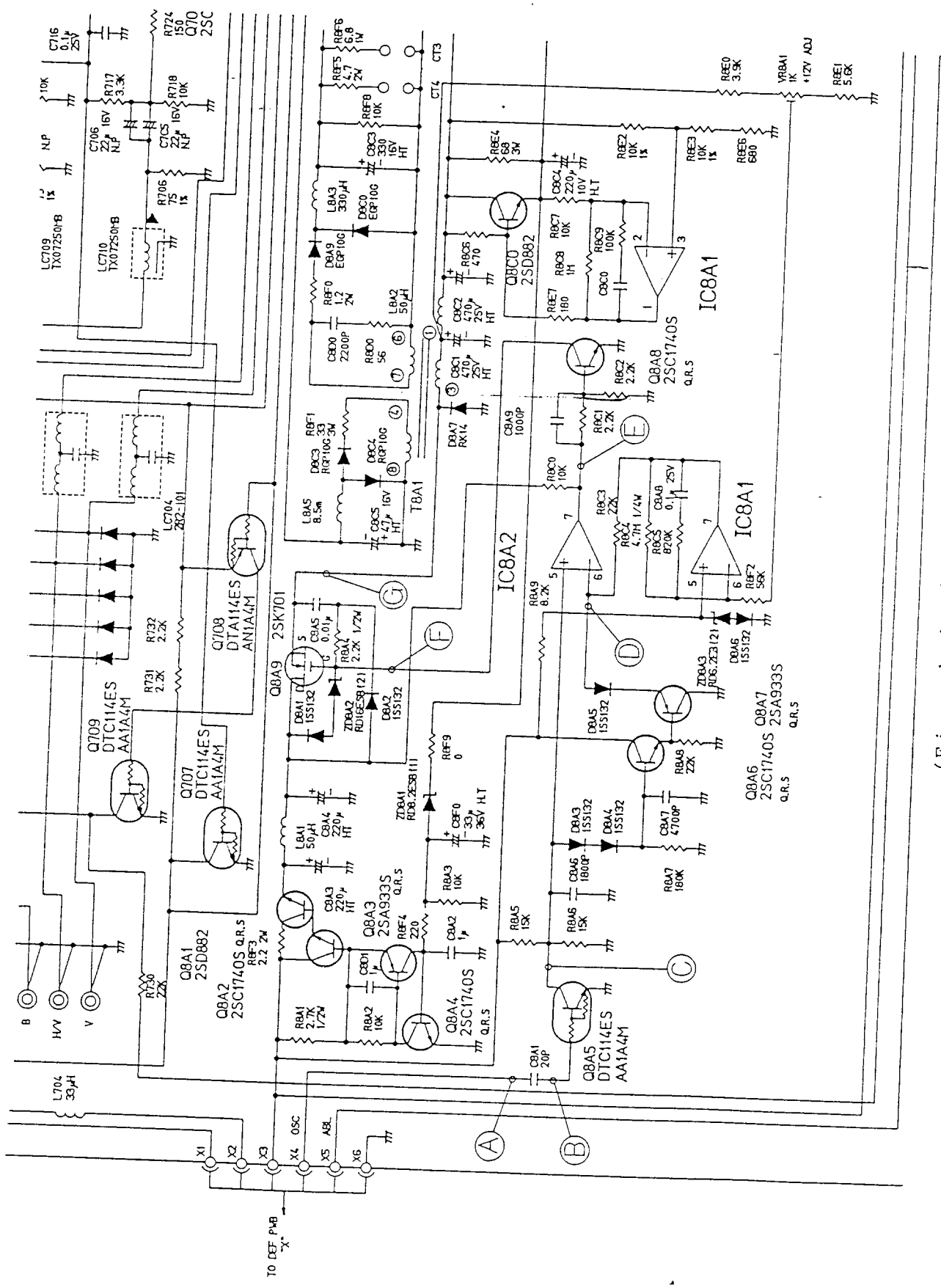
A pulse of 50Vp-p is taken out to the secondary side of T8A1 in the +12V regulator, and its negative voltage is converted into DC by the smoothing circuit of D8C4, L8A5, and C8C5.

1.1.3 +6V Regulator

The error amplifier controls the base of Q8C0 to about 6.6V and its emitter to 6V. When the 6V power line exceeds 8.2V the overvoltage protection circuit is turned on, cutting off the supply of the power to the 12V power circuit.



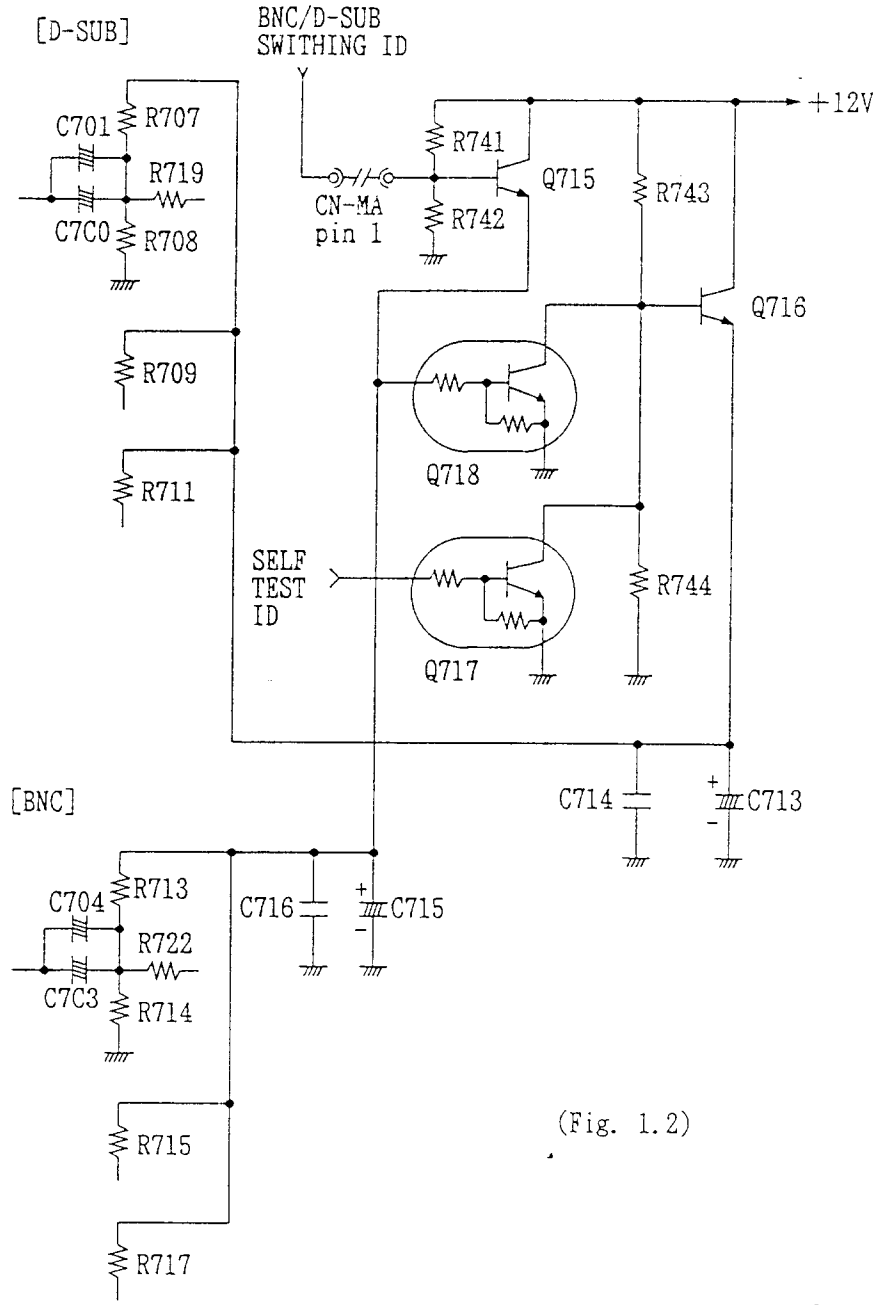
(Fig. 1.1.a)


IC8A1
IC8A2
Q8A1 2SD882
Q8A2 2SC1740S Q.R.S
Q8A3 2SA933S Q.R.S
Q8A4 2SC1740S Q.R.S
Q8A5 DTC114ES AA1A4M
Q8A6 2SC1740S Q.R.S
Q8A7 2SA933S Q.R.S
Q8A8 2SC1740S Q.R.S
Q8B0 2SD882
Q707 DTC114ES AA1A4M
Q708 DTA114ES AN1A4M
Q709 DTC114ES AA1A4M
Q8A9 2SK701
T8A1
L704 33μH
L8A2 50μH
L8A3 330μH
L8A4 50μH
L8A5 8.5m
+12V ADJ
TO DEF PWB "X"

(Fig. 1.1.b)

1.2 BNC/D-SUB Switching Circuit

The front panel mounted BNC/D-SUB switch selects which of these two inputs will be active.
When the switch is set to the BNC position, CN-MA pin ⑨ is placed into an open state, applying the bias to R713, R715, and R717 of the BNC-side input circuit to allow the video signal to go through them. At that time, Q716 does not come on because the base of Q718 is high in level. Therefore, the bias is not applied to the D-SUB side. When the switch is set to the D-SUB position, Q716 comes on with CN-MA pin ⑨ is grounded, thereby applying the bias to R707, R709, and R711 of the D-SUB side input circuit. In the self test, Q717 is turned on, to prevent the bias from being applied to neither the BNC-side input circuit nor the D-SUB side input circuit.



(Fig. 1.2)

1.3 Sync Interface Circuit

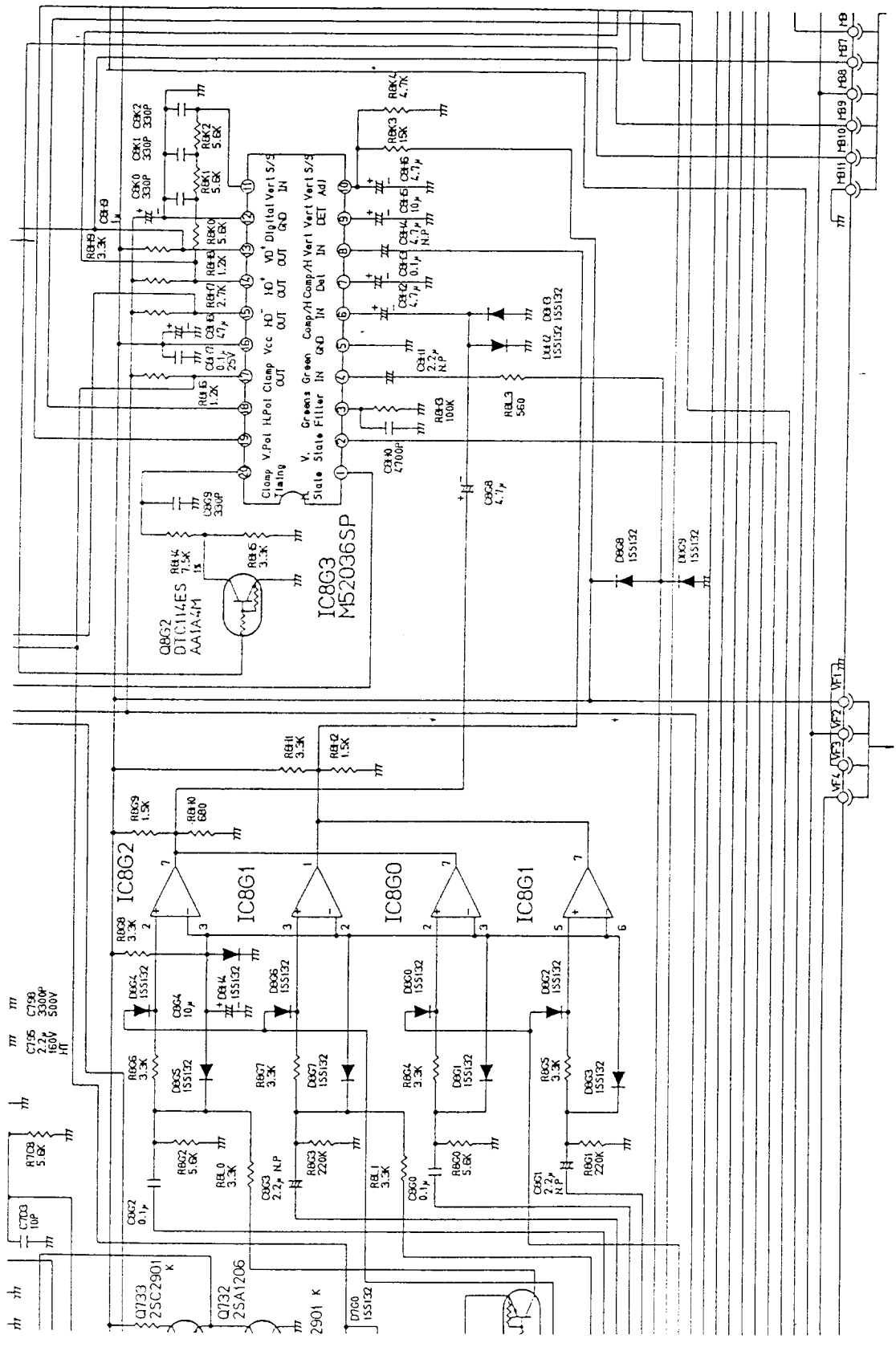
When D-SUB is input:

The horizontal sync signal is fed to pin ② of IC8G2, and shaped at pin ⑦, and then output. The signal is made about 1.4Vp-p by D8H2 and D8H3 output to pin ⑥. The vertical sync signal is fed to pin ③ of IC8G1, shaped at pin ①, and then output. This signal is fed to pin ⑧ of IC8G3.

When BNC is Input:

The horizontal sync signal is fed to pin ② of IC8G0, shaped at pin ⑦, and then output. This signal is fed to pin ⑥ of IC8G3, just as in the case of D-SUB.
The vertical sync signal is fed to pin ⑤ of IC8G1, shaped at pin ⑦, and then output. This signal is fed to pin ⑧ of IC8G3, just as in the case of the D-SUB.

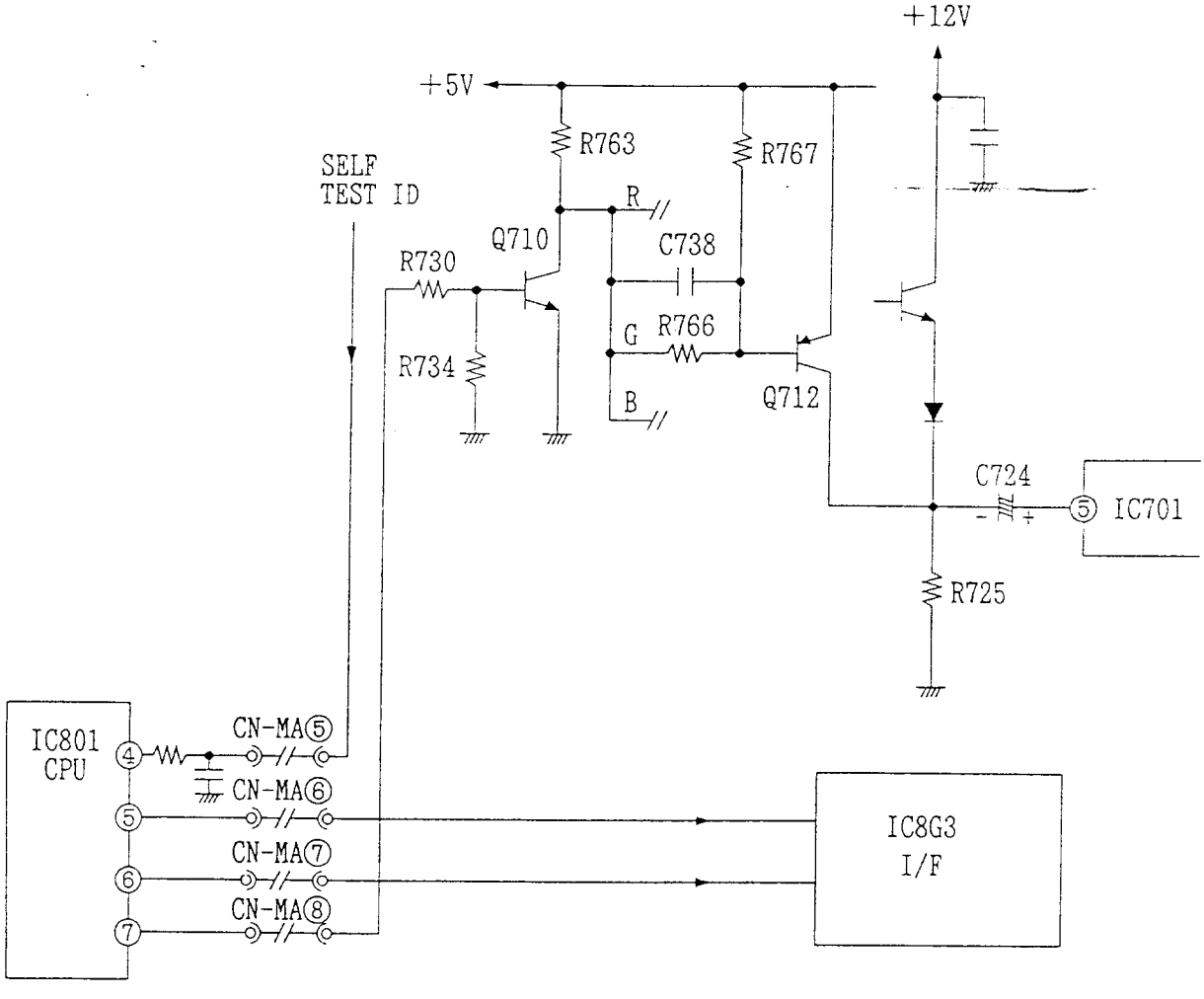
The composite sync is fed to pin ⑥ of IC8G3, just as in the case of the horizontal sync signal of BNC.
In the case of sync ON input, it is fed to pin 4 of IC8G3 from the video input circuit for both D-SUB and BNC.
The signal fed to IC8G3 is internally sync separated and waveform shaped. From pin ⑬, V Sync (Posi) is output at 12Vp-p, and from pin ⑭, H Sync (Posi), from pin ⑮, H Sync (Negae), and from pin ⑩, the clamp pulse (posi), are output at 5Vp-p, respectively. Also, when H Sync input signal does not exist at pin ⑭, and when V Sync input signal does not exist at pin ⑬, and also when the polarity is positive, the output is low and when the polarity is negative, the output is high.


IC8G3
M52036SP
IC8G2
IC8G1
IC8G0
IC8G1
Q8G2
DTC114ES
AA1A4M
Q733
2SC2901
K
Q732
2SA1206
2901 K
Clamp V.Pol H.Pol Clamp Vcc HD OUT VD OUT Digital Vert S/S GND IN
V. State Green Filter IN Green GND Comp/H IN Comp/H Del IN Vert DET OUT Vert Vert S/S Adj
Clamp Timing
TO REF PWB
VF1
VF2
VF3
VF4
H7
H8
H9
H10
H11

(Fig. 1.3)

1.4 Self Test

When the D-SUB input is selected from the front panel and there is no video cable attached to either D-SUB connector, CN-MA pin ⑤ and IC801 (CPU) are high. Therefore, IC801 pin ⑤ (H sync), pin ⑥ (V sync) and pin ⑦ (vido) comprise the CPU generated Self Test pattern.

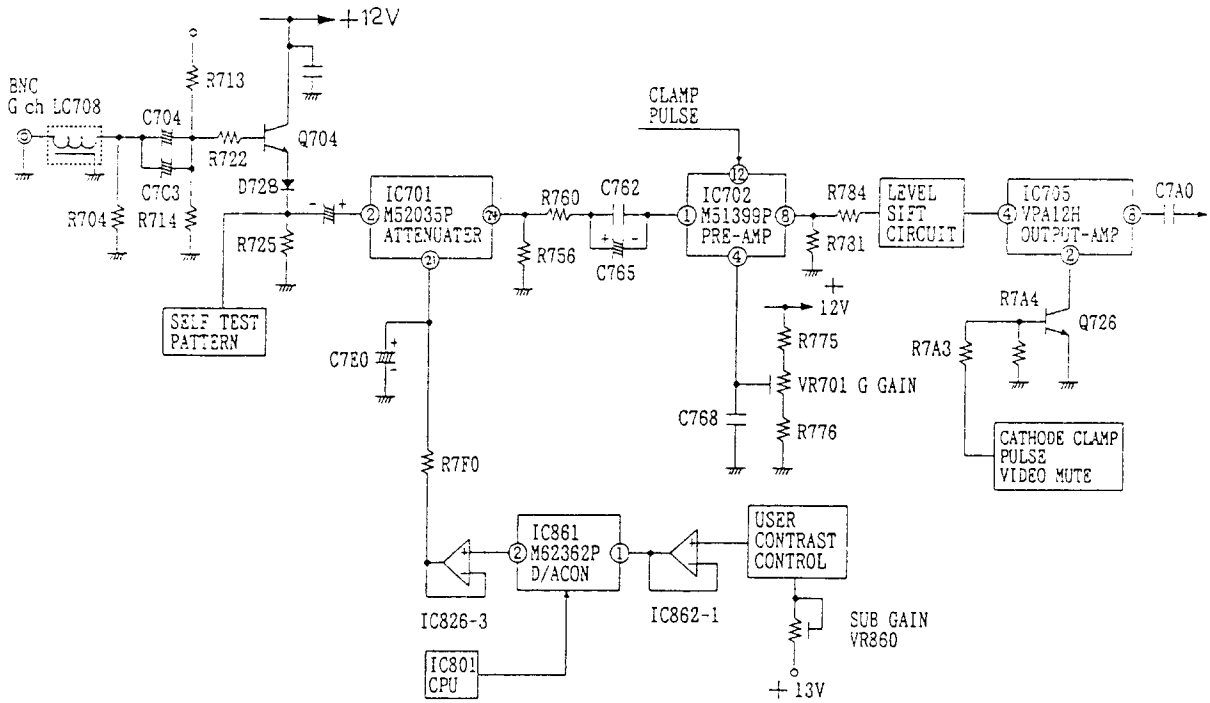


(Fig. 1.4)

2. Video Circuit

2.1 Video Signal Amplifier

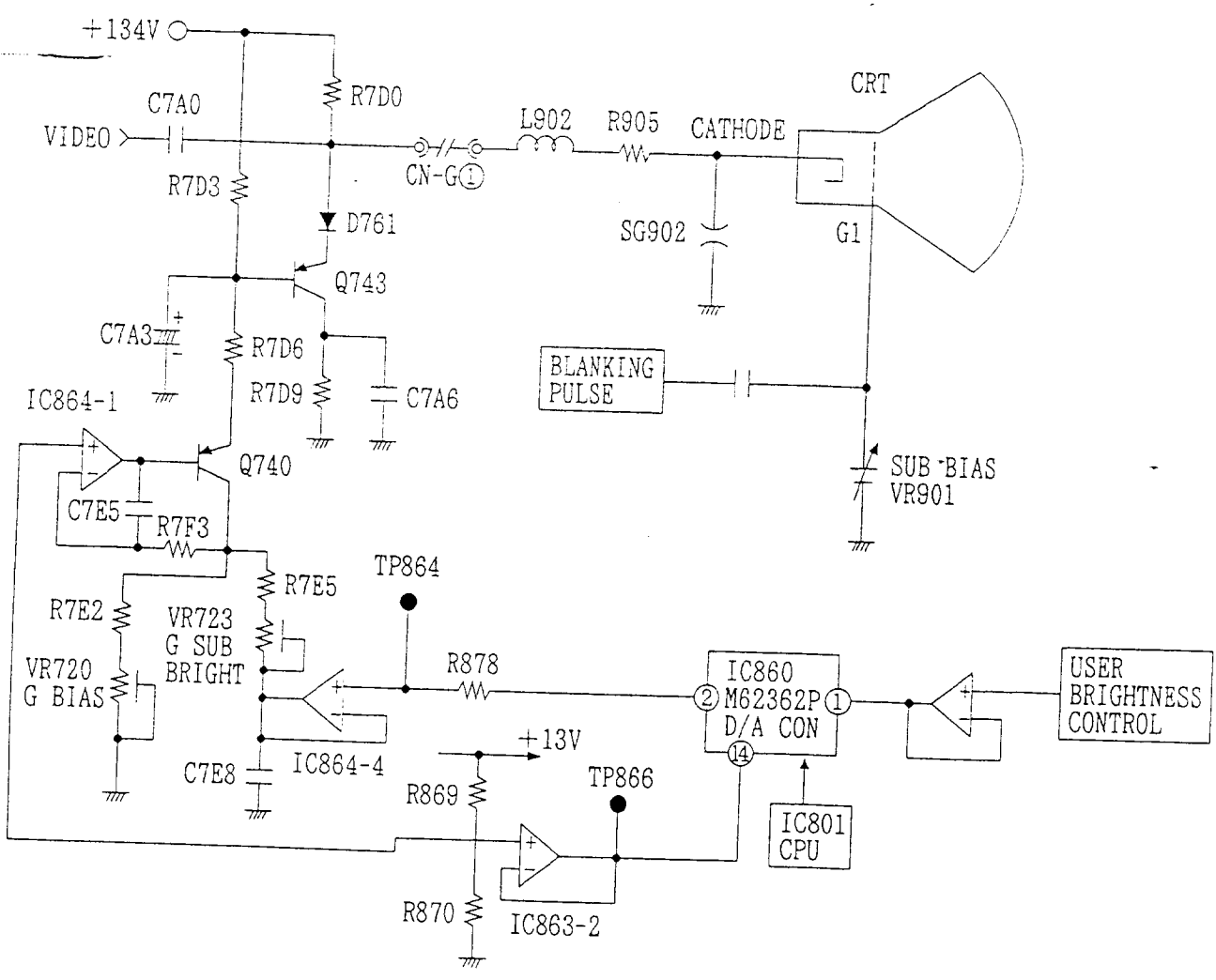
The three video circuits are the same for the each R/G/B color. Therefore only the green videeo circuit will be explained here. The green video signal input is fed to the pin ② of IC701 through the Q704. The video signal is attenuated by IC701, and the attenuation level is controlled by the user CONTRAST CONTROL (VR101). The output signal of IC701 is supplied to IC702. The output signal of IC702 pin ⑧ is supplied to IC705. IC702 is preamplifier, and the gain is adjustable by the G GAIN VR701. IC705 is output amplifier.



(Fig. 2.1) BLOCK DIAGRAM of Video Signal Amplifier

2-2 Brightness and Cut-off circuit

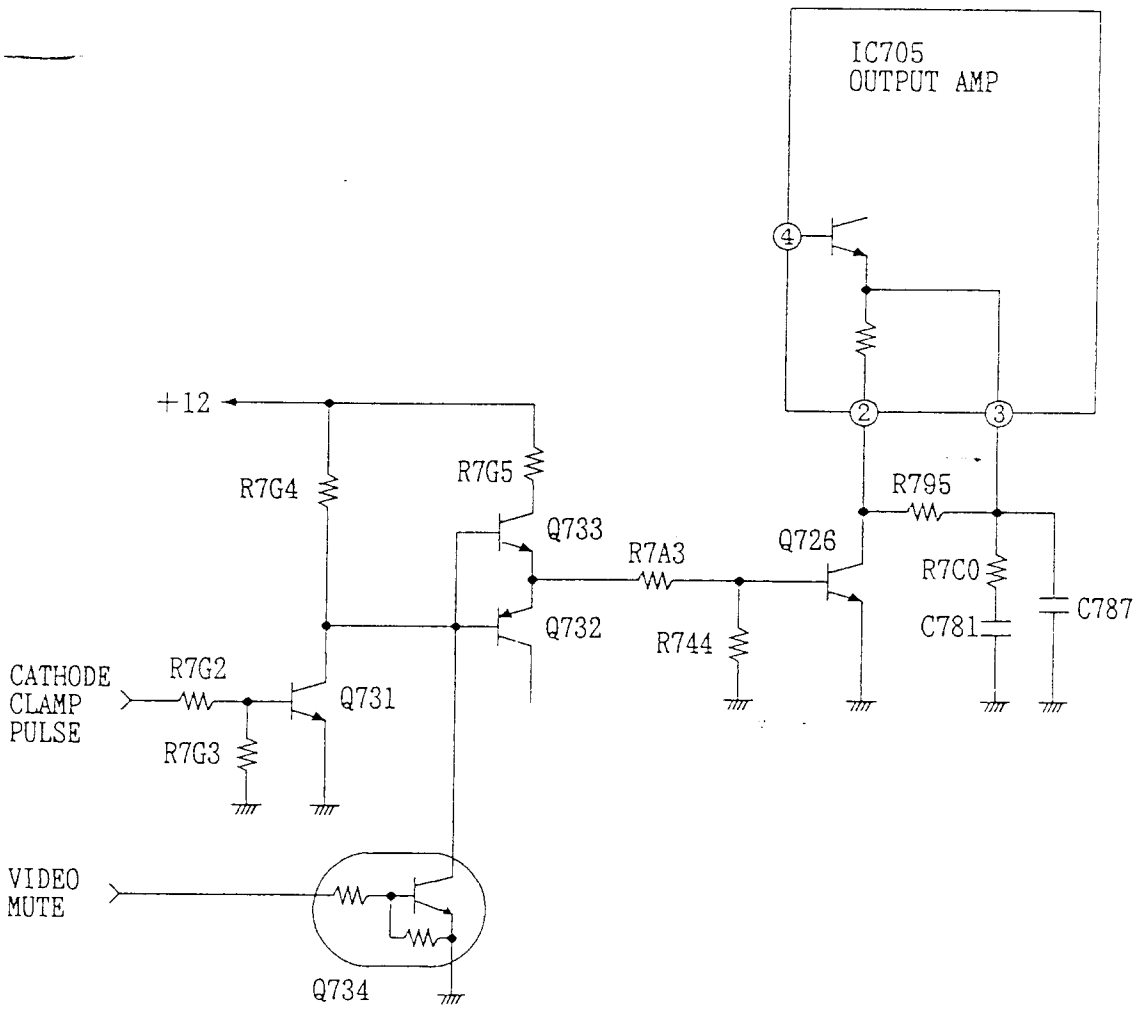
The raster brightness is determined by camping the video output at the cathode with the pulse supplied by IC705. The DC clamping level is determined by using the voltage drop of R7D3 (which is determined by Q740's current). The raster brightness level is determined by the voltage at the output of IC864-4. When the voltage of Q740 emitter is same voltage as the output of IC864-4, the DC clamping level is at cut-off level.



(Fig. 2.2) Brightness and Cut-off Circuit

2-3 Cathode Clamp Pulse Circuit and Video Mute Circuit

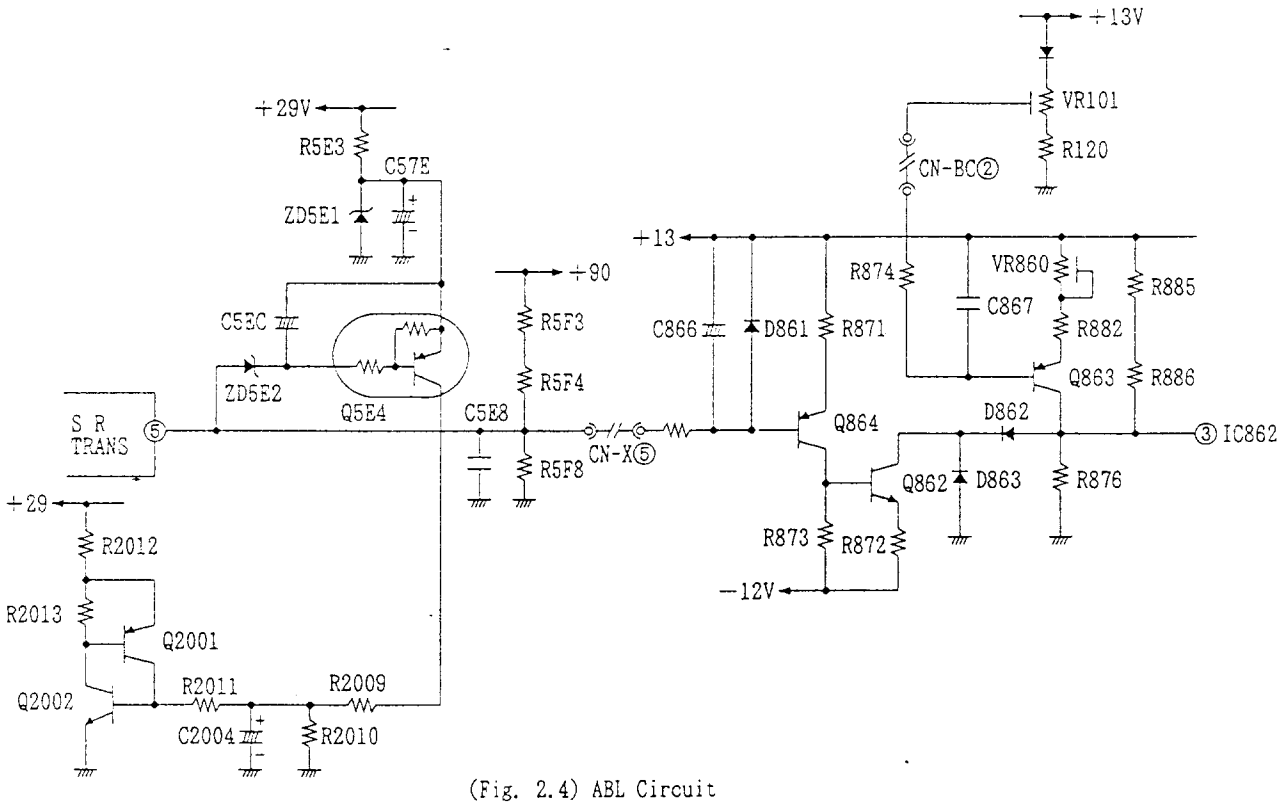
The cathode clamp pulse is applied to the push-pull circuit which is composed of Q732 and Q733 through the Q731. During the clamping period, this pulse turns on the Q726 and the video amplifier is at cut-off. The video mute signal is generated at the CPU (pin ⑧) when input signal is changed. Q734 is turned on by the video mute signal from the CPU. Then Q726 is turned off and the video amplifier is at cut-off during the time that the video mute signal is generated.



(Fig. 2.3) Cathode Clamp Pulse and Video Mute Circuit

2-4 ABL Circuit

The maximum average current flowing through the CRT is controlled to under 500μA by limiting the video Vp-p. The voltage of CN-X pin ⑤ is clamped at 13.6V by D861 when the anode current is 500μA or less. If the anode current exceeds 500μA, the voltage of CN-X pin ⑤ drops to less than 13.6V due to the voltage drop of R5F3 and R5F4. This drives Q864 and Q862 to decrease the collector potential of Q862, and the gain of IC701 is decreased.



(Fig. 2.4) ABL Circuit

3. Deflection Circuit

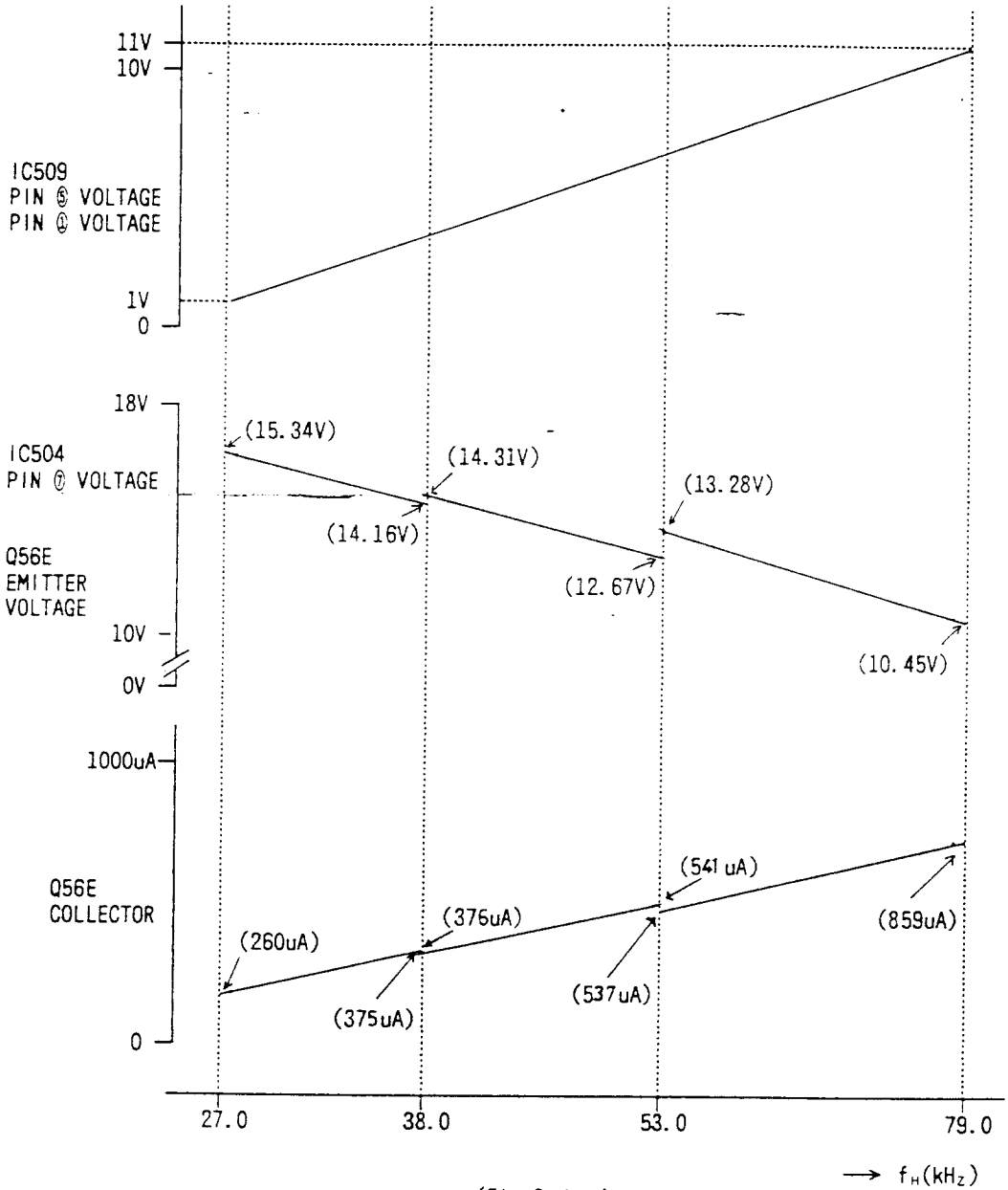
3.1 Horizontal Circuit

3.1.1 +18V Power Supply

This power supply is a series regulator consisting of Q461, Q462, ZD461, and its peripheral circuit. Its output is supplied to the horizontal oscillator circuit and the horizontal image position control circuit, etc.

3.1.2 Horizontal Oscillator Circuit

This oscillator circuit consists of a H-F/V delay circuit, an oscillator frequency control circuit (V/I) for converting the H-F/V output into the oscillator frequency control ccurrent, and a horizontal oscillation and sync circuit. The H-F/V delay circuit consists of IC509 (pins ⑤, ⑥, and ⑦), R502, R503, C501, D501, and its peripheral circuit. This circuit changes the H-F/V voltage (CPU output) and inputs this voltage to IC509 pin ⑤ delaying it by the time constant consisting of R502, R503, and C501. This delayed voltage is supplied to each circuit via the IC509 (pins ①, ②, and #③) voltage follower circuit. The oscillator frequency control circuit consists of IC505, IC504 (pins ①, ②, ③, ④, ⑤, ⑥, and ⑦), Q56E, and its peripheral circuits. It adds the voltage of the H-F/V delay circuit output (pin ① of IC509) and the DC bias of IC504 (pin ⑤) and converts them into the current necessary for the oscillation frequency control with IC504 (pins ①, ②, and ③) and Q56E. The horizontal oscillation and sync circuit consists of IC501, C515, and its peripheral circuit. This circuit makes oscillation frequency nearly equal to the input signal signal frequency upon reception of control current (collector current of Q56E). It then compares the sync signal fed to pin ① of IC501 with the phase of the horizontal output pulse fed to pin ④ and controls the frequency in such a way that the input signal is synchronized with the oscillation frequency on the AFC current of pin ⑦. The horizontal output pulse at pin ⑧ of IC501 is supply to the horizontal drive circuit, etc. For information on the input signal frequency VS each pin voltage and current of each section, refer to Fig. 3.1.2.


11V
10V
IC509
PIN ⑥ VOLTAGE
PIN ⑪ VOLTAGE
1V
0
18V
IC504
PIN ⑦ VOLTAGE
Q56E
EMITTER
VOLTAGE
10V
0V
(15.34V)
(14.31V)
(13.28V)
(14.16V)
(12.67V)
(10.45V)
1000uA
Q56E
COLLECTOR
0
(260uA)
(376uA)
(541 uA)
(859uA)
(375uA)
(537uA)
27.0
38.0
53.0
79.0
→ fH(kHz)

(Fig. 3. 1. 2)

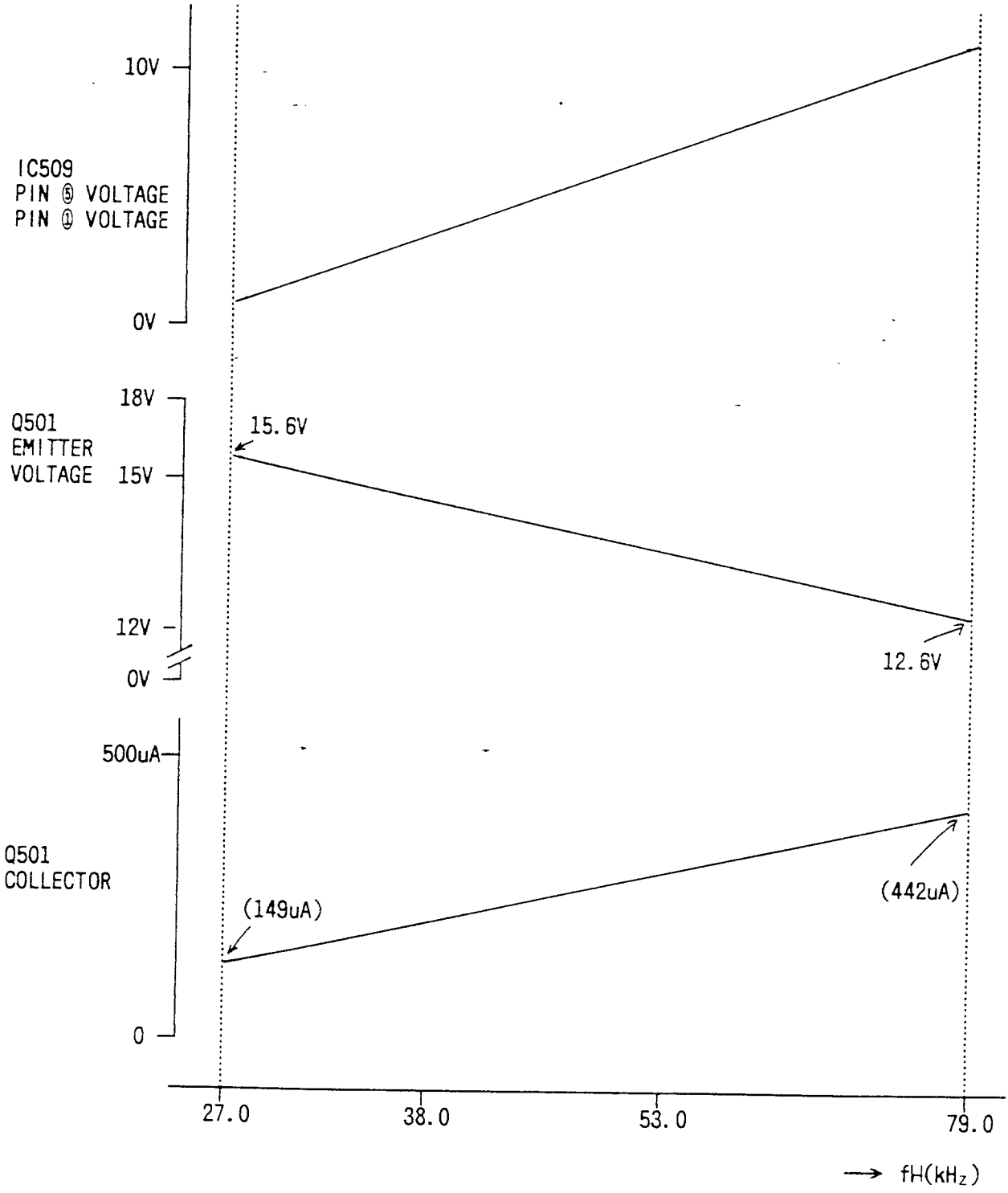
3.1.3 Horizontal Image Position Control Circuit

This circuit controls image position by delaying the input sync delay time and the quasi AFC comparison signal. It consists of a delay time control circuit for converting the H-F/V output voltage into delay time control current, a delay time control and sync regenerator circuit. The delay time control circuit consists of IC504 (pins ⑫, ⑬, and ⑭), Q501, and its peripheral circuits. It adds the H-F/V delay circuit output (pin ① of IC509) voltage and IC504 pin ⑫ voltage and converts them into the current (Q501 collector current) proportional to the input signal frequency. The delay time control and sync regenerator circuit consists of Q502, C502, IC502, and IC503, and its peripheral circuits.
When a negative pulse (sync signal) is applied to pin ① of IC502, pin ④'s output goes low, and Q502 is turned off. As the pin ⑤ time constant terminal is connected to GND via R50M, this ~~state~~ is held constant. When Q502 is turned off, C502 is charged by the collector current of Q501. When the charge voltage (pin ③ of IC503) of C502 is brought high by the delay time control voltage (pin ② of IC503), pin ⑦ of IC503 (IC502 pin ③ CLR terminal) is rendered low. Because IC502 is cleared, pin ④ is made high, Q502 is turned on, and the electric charge of C502 is discharged, causing pin ⑦ of IC503 to go high. With the positive trigger of IC502 pin ⑩ (pin ④ output), the negative pulse of the width (≒ 0.15uS) as determined by R520 and C506 is output from pin ⑫ as a quasi sync signal and supplied to pin ① of IC501. The delay time is equal to the time at which pin ④ of IC502 is brought low and given by the following formula.

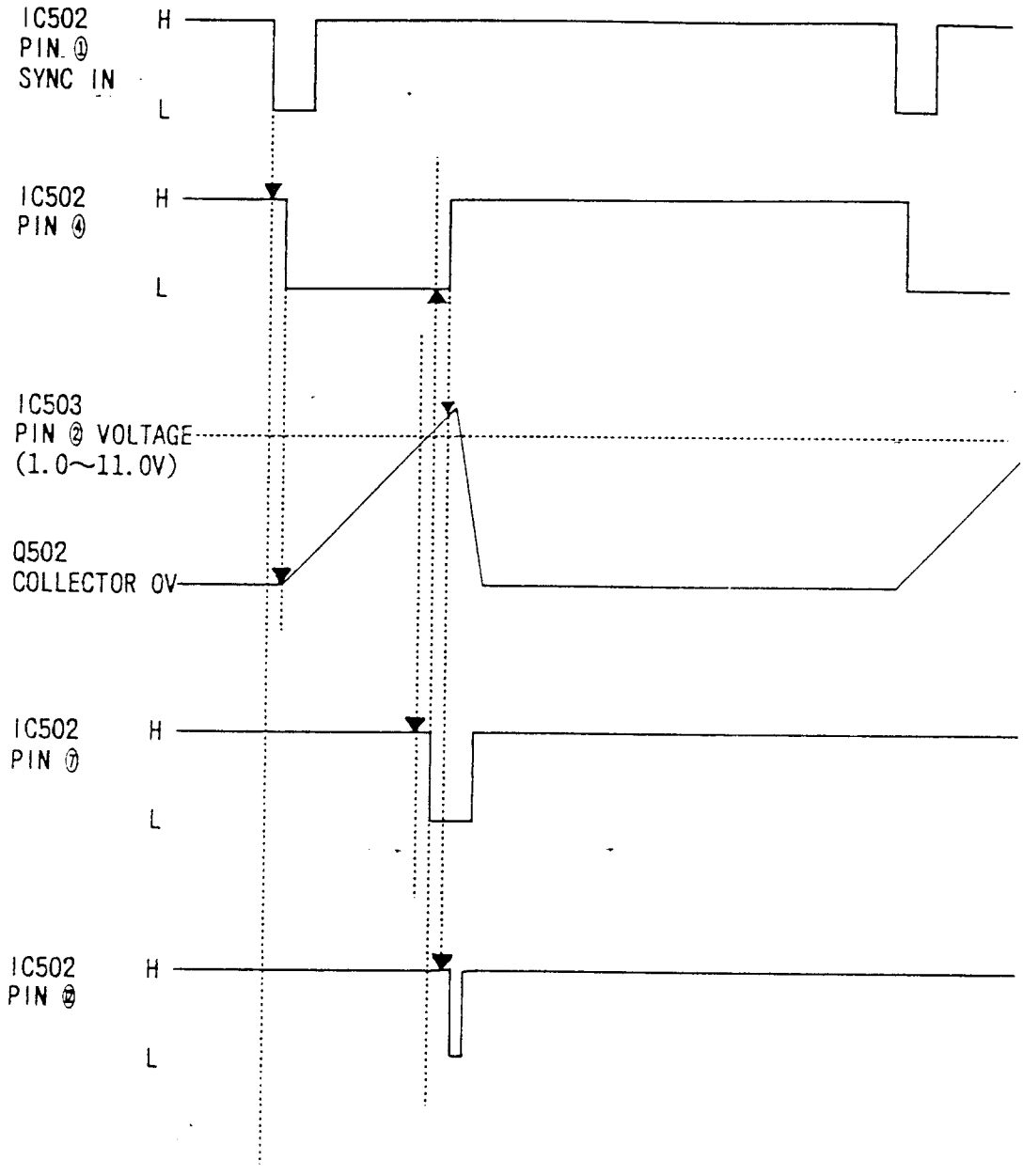
$$T = V * C/I$$

T: Delay time
V: Delay time control voltage (IC503 pin ②)
C: C502 capacitance
I: Delay time control current (Q501 collector current)

The delay time control current I is proportional to the input signal frequency. The delay time T is proportional to the horizontal cycle. Therefore, the control range on the screen is held constant regardless of input signal frequency. For information about the input signal frequency VS each section's terminal voltage and current, refer to Fig. 3.1.3.a.
For the operation waveform of each section, refer to Fig. 3.1.3.b.


10V
IC509
PIN ⑤ VOLTAGE
PIN ① VOLTAGE
0V
18V
Q501
EMITTER
VOLTAGE
15V
15.6V
12V
0V
12.6V
500uA
Q501
COLLECTOR
(149uA)
(442uA)
0
27.0
38.0
53.0
79.0
fH(kHz)

(Fig. 3.1.3.a)


IC502
PIN ①
SYNC IN
H
L
IC502
PIN ④
H
L
IC503
PIN ② VOLTAGE
(1.0~11.0V)
Q502
COLLECTOR 0V
IC502
PIN ⑦
H
L
IC502
PIN ⑫
H
L

(Fig. 3.1.3.b)

3.1.4 Image Distortion Correction Circuit

This circuit adds the vertical cycle sawtooth, the side pin correction parabolic wave and the CPU generated image distortion correction voltage to the delay time control voltage. The sawtooth wave and parabolic wave adder circuit consists of IC506 and its peripheral circuits. It adds the sawtootn wave and parabolic wave and supplied via R5Y5 and R5X5 with IC506 and its peripheral circuit to produce an image distortion correction waveform. It then attenuates the waveform to a peak-to-peak wave value suited for addition of the waveform to the delay time control voltage. The circuit for adding the image distortion correction wave to the delay time control voltage consists of IC504 (pins ⑧, ⑨, and ⑩) and its peripheral circuit. The image distortion correction waveform (IC504 pin ① output) is supplied to IC504 (pin ⑩) via C5X3 and added to the delay time control voltage from the microcomputer supplied via R5Y1. This added voltage is supplied to the horizontal image position control circuit (IC503 pin ②).

3.1.5 Horizontal Comparator Switching Circuit

This comparator consists of Q50A, Q51A, Q52A, Q53A, Q54A, Q55A, Q58A, IC510, IC511, and peripheral circuits. The description of the comparator for fH = 30kHz will be given below as a typical comparator used.

High frequency input signal change description:

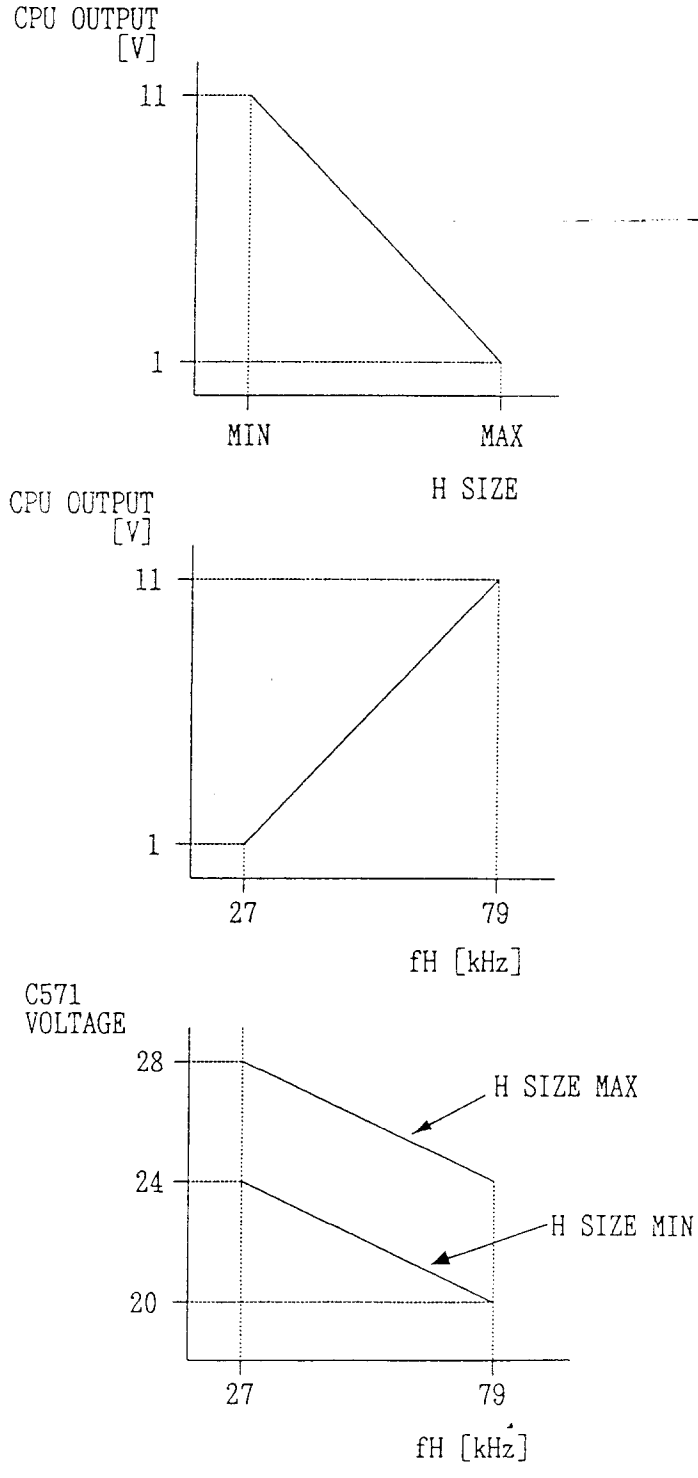
When the input signal is fH < 30kHz, the base of Q58A is low and therefore it is off. Because the voltage at pin ⑦ of IC510 is higher than the voltage at pin ⑥ (H-F/V), pin ① remains constant at about 16V. When the input signal fH > 30kHz, the base of Q58A is made high and therefore turned on. Now, pin ⑦ voltage is about 0.3V lower than the switching level (equivalent to fH = 30kHz). Pin ⑥'s voltage is gradually increased by the H-F/V delay circuit. When pin ⑥'s voltage exceeds pin ⑦'s, pin ① drops to 0V, thereby stabilizing pin ⑦'s voltage. Now, this voltage is placed in the stable state.

Low frequency input signal change description:

When the input signal is fH > 30kHz, Q58A is on because its base is high. The IC510 pin ⑦ voltage is lower than the pin ⑥ (H-F/V) voltage, pin ① becomes about 0V and therefore in the stable state. When the input signal becomes fH < 30kHz, the base of Q58A is forced low and Q58A is turned on. Pin ⑦'s voltage is 0.3V higher than the switching level (equivalent fH = 30kHz). Pin ⑥'s voltage is gradually reduced by the H-F/V delay circuit. When pin ⑥'s voltage drops below that of pin ⑦, pin ①'s voltage becomes 16V, thereby stabilizing pin ⑦'s voltage.

3.1.6 Horizontzl Drive Circuit

The horizontal pre-drive pulse at IC501 pin ⑫, and Q574 is turned on and off. Then it is amplified by T571 to turn on Q581 (horizontal output transistor). This horizontal drive is set so that the voltage of C571 is controlled to the optimum value by the horizontal size and the horizontal frequency.



(Fig. 3.1.6)

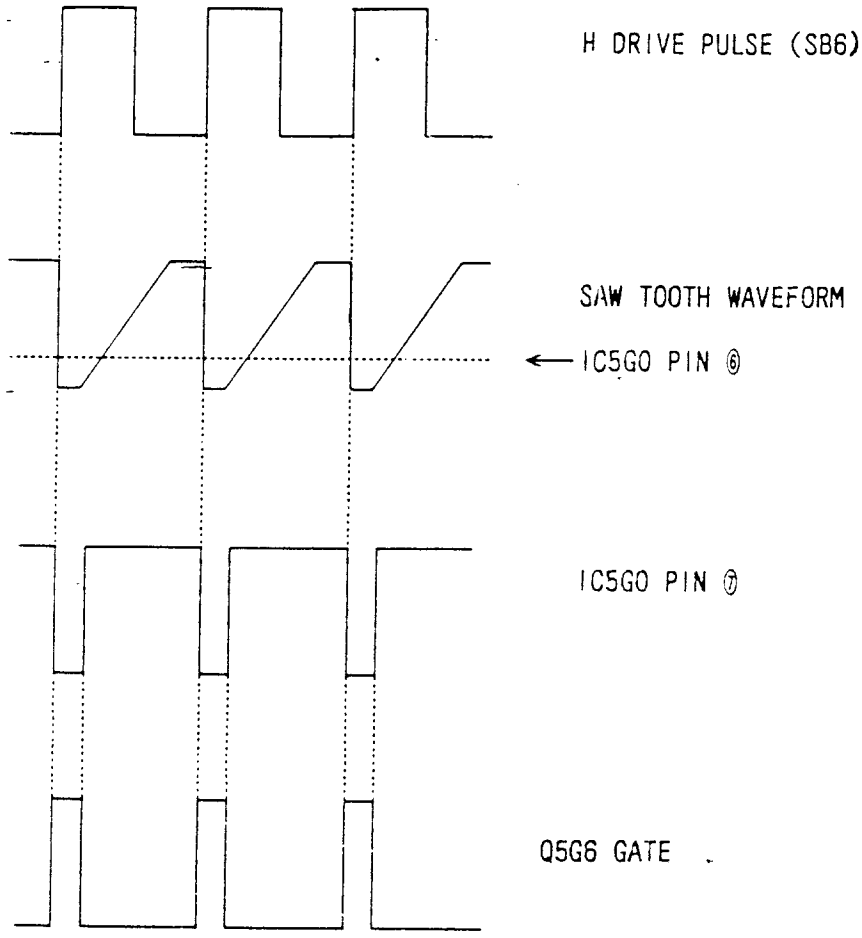
3.1.7 Horizontal Size Control Circuit

The horizontal video image is manipulated by the user control (set using 1280 x 1024, 78.8kHz/70Hz and SW109 MAX). It is controlled to 316mm by VR590. Also, the horizontal video size is designed to scan the front bezel fully (316mm) at all the preset timing, except MAC II When the H SIZE of user control is set to the MAX position. The horizontal video size is stored with the specified size at each preset timing. The horizontal deflection voltage controls 175V to be supplied from the power supply unit based on the PWM with the H SIZE and H F/V signals. This voltage is subjected to DC-DC conversion, supplied to T581, and then stepped up for use.
The H SIZE control consists of the following circuits:

Sawtooth Wave Generator
Switching Pulse Generator
Switching FET Drive Circuit
Duty Cycle Controller

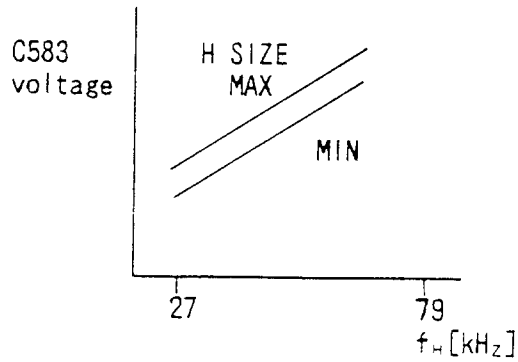
The sawtooth generator is formed by Q5G0, C5G2, Q5G1, Q5G2, ZD5G0, R5G1, and ZD5G1. Q5G0 is switched by the differentiated H OSC pulse. Therefore, the sawtooth wave synchronized to H OSC frequency. The square wave is generated at IC5G0 pin ⑦, is inverted by transformer T5G0, and input to gate of FET Q5G6. The square wave is generated at FET Q5G6's source $175V_{P-P}$ is changed to DC level voltage by smoothing circuit composed of: L5G1, C5H9, L5G2, and C583.

This DC voltage is used as a power source.



(Fig.3.1.7.a)

The threshold voltage of pin ⑥ of IC5GO which determines the ON-OFF duty of Q5G6 is controlled by the DC voltage of SB3 (H SIZE) and SB4 (H-F/V).



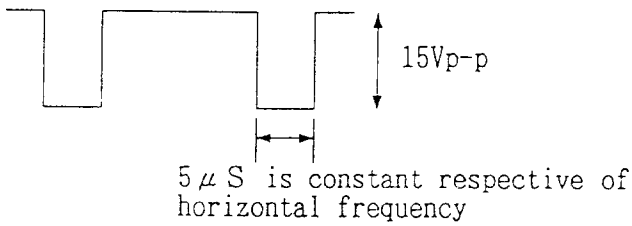
(Fig.3.1.7.b)

The horizontal video size changes up to 85% when the maximum size is made 100%.

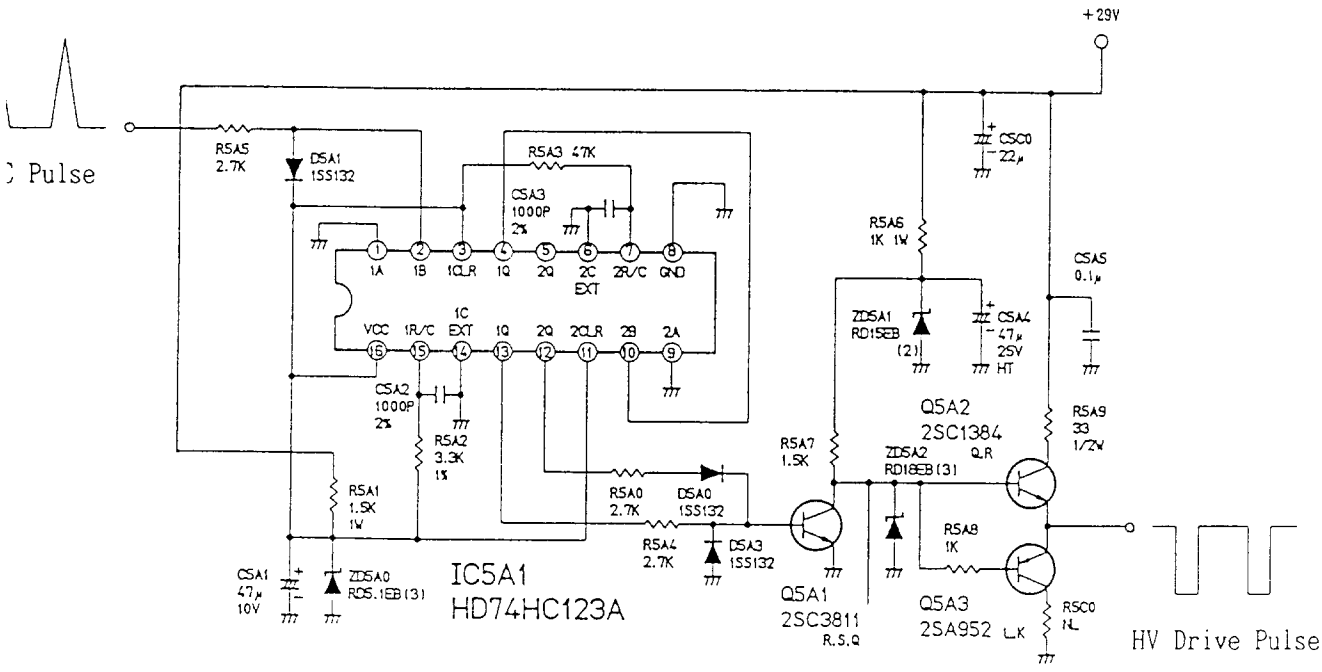
3.2 High Voltage Circuit

3.2.1 High Voltage Drive Circuit

The high voltage drive circuit consists of IC5A1 (monostable multivibrator), Q5A1, Q5A2, and Q5A3. This circuit receives an AFC pulse from the horizontal output transformer and generates a high voltage drive pulse which ensures the OFF period such as shown below by using the monostable multivibrator.
The high voltage drive pulse is fed to the gate of Q5A4 and Q5A5 FET through the push-pull stage of Q5A2 and Q5A3.



(Fig. 3.2.1.a)



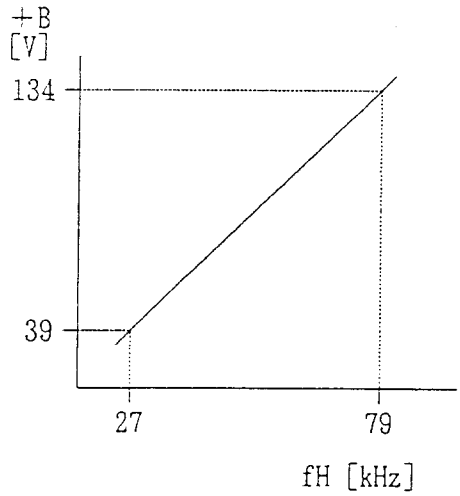
(Fig. 3.2.1)

3.2.2 High Voltage Output Circuit

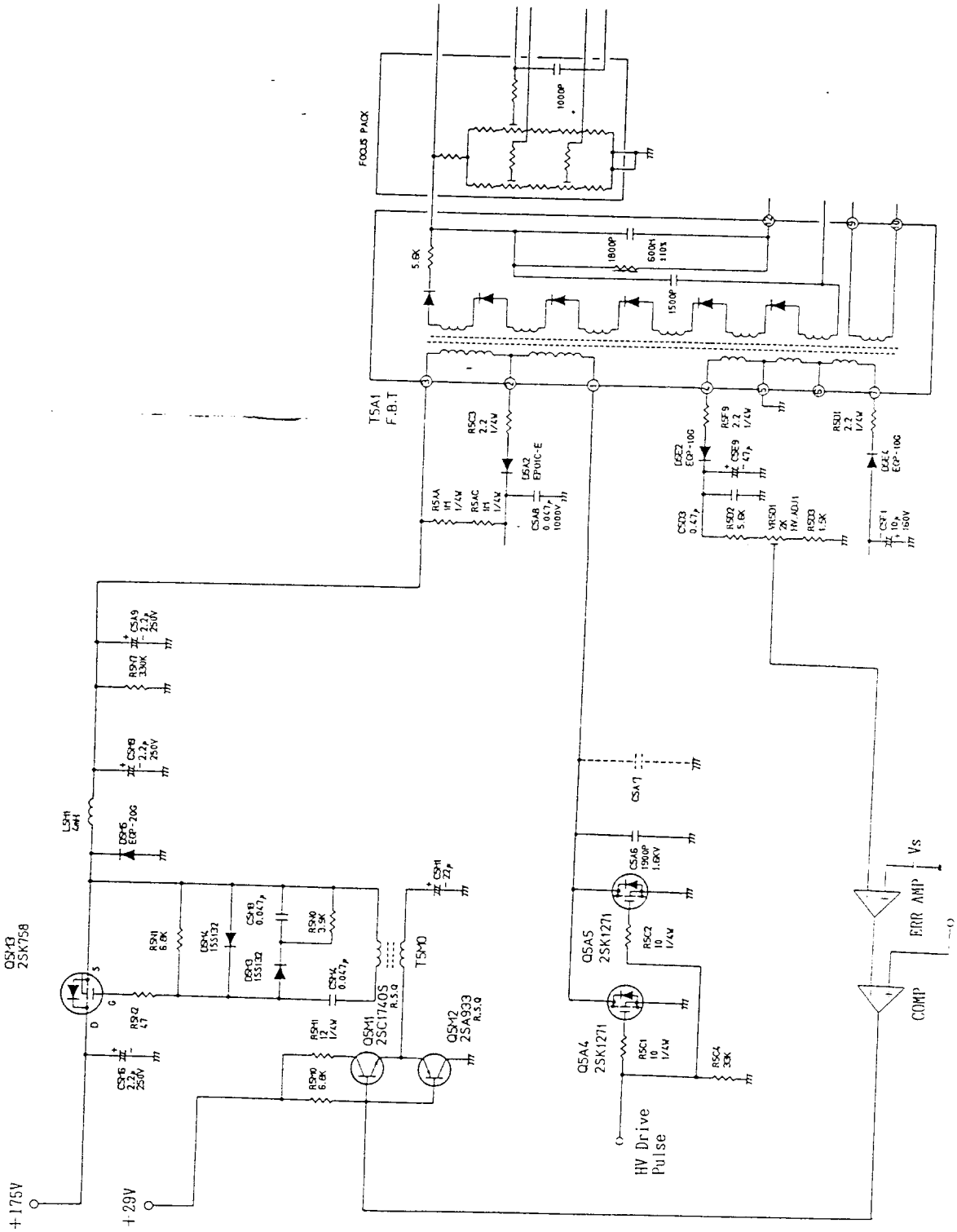
High voltage regulation is obtained through the use of two circuit. The first circuit controls T5A1's (FBT) input voltage (+B) for the horizontal frequency and regulates high voltage. The second circuits controls the SR Transformer's output voltage to the CRT anode current and regulates the high voltage.

3.2.3 +B Control Circuit

This circuit detects high voltage based on the tertiary winding of T5A1 (FBT) and controls the DC/DC converter (Q5M3, Q5M5, L5M1, and C5M8) for keeping the high voltage remains constant despite of a horizontal frequency change. The control amount (high voltage) can be varied by VR5D1. Relations between the horizontal frequency and the +B are as indicated below:



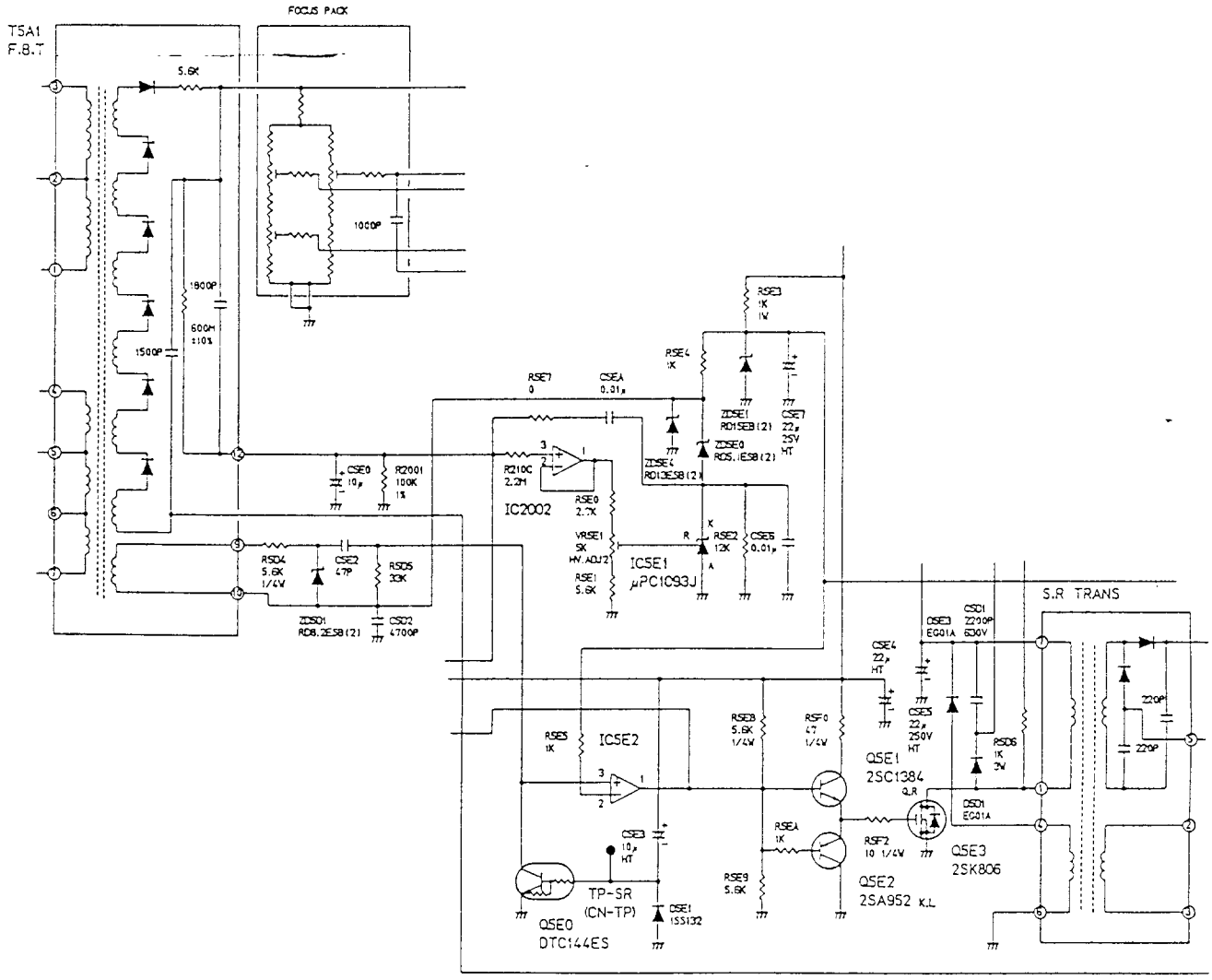
(Fig. 3.2.3.a)


FOCUS PACK
1000P
5.6K
1800P
600K 110%
1500P
TSA1
F.B.T
RSA3 2.2 1/4W
DSA2 EP01C-E
CSA8 0.047P 1000V
RSA4 1M 1/4W
RSA5 1M 1/4W
DSE2 EG1-10G
RSF9 2.2 1/4W
CSE9 47P
RSD2 5.6K
VRSD1 2K H.V ADJ
RSD3 1.5K
CSD3 0.47P
RSD1 2.2 1/4W
DSE1 EG1-10G
CSF1 10P 160V
+175V
+29V
Q5K3 2SK758
LSM1 4.4H
DSM6 EG1-20G
CSM9 2.2P 250V
RSM7 330K
CSM8 2.2P 250V
RSM1 6.8K
DSM4 1SS132
DSM3 1SS132
CSM5 0.047P
RSM0 3.9K
CSM4 0.047P
RSM2 4.7
CSM6 2.2P 250V
RSM1 12 1/4W
RSM0 6.8K
Q5M1 2SC1740S R.S.Q
Q5M2 2SA933 R.S.Q
CSM1 22P
TSM0
CSA7
CSA6 1900P 1.6KV
Q5A5 2SK1271
RSC2 10 1/4W
Q5A4 2SK1271
RSC1 10 1/4W
RSC4 33K
HV Drive Pulse
Vs
ERR AMP
COMP
Sawtooth Wave

(Fig. 3.2.3.b)

3.2.4 S-R Control Circuit

This circuit detects high voltage with the bleeder resistor of T5A1 (FBT) and the detection resistor R2001 and controls the width of the pulse which drives the S-R transformer based on this detection voltage, and keeps the high voltage remains constant in spite of a change in CRT anode current.
The control amount (high voltage) can be varied by VR5E1.

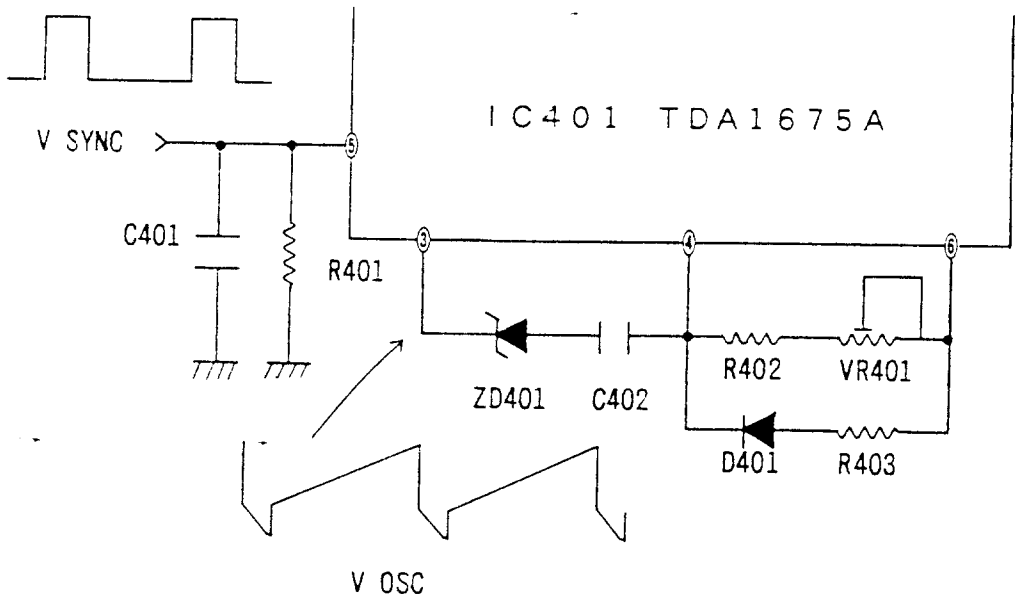


(Fig. 3.2.4)

3.3 Vertical Circuit

3.3.1 Vertical Oscillator Circuit

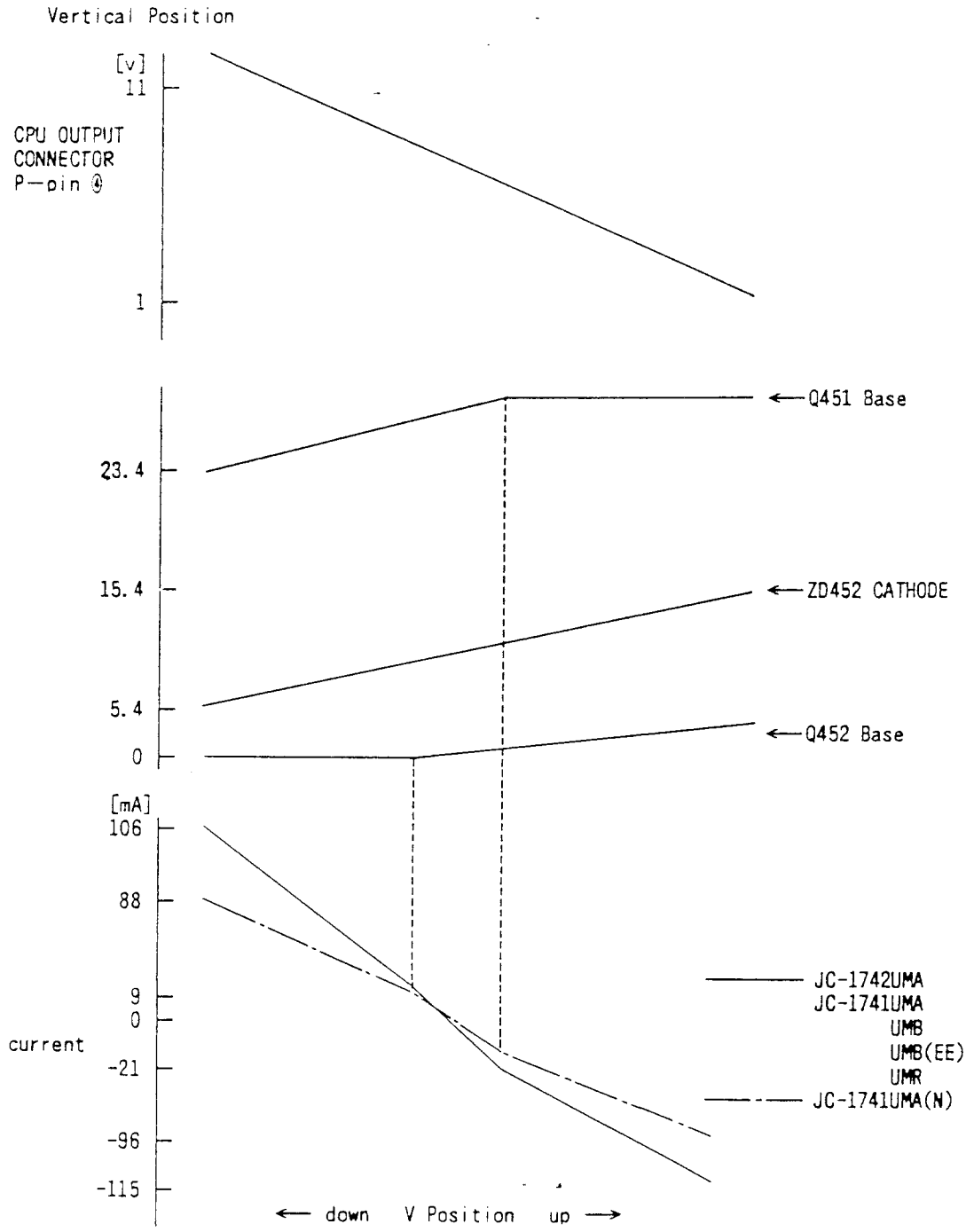
A positiven sync pulse input to IC401 pin ⑤ results in a sawtooth wave being generated at pin ③. When vertical deflection frequency fv is 40 - 90Hz, sync is automatic. When the sync signal is not present, oscillation is made at the frequency fo determined by C402, R402, R403, and VR401 to make fo = 40Hz with VR401.



(Fig. 3.3.1)

3.3.2 Vertical Position Circuit

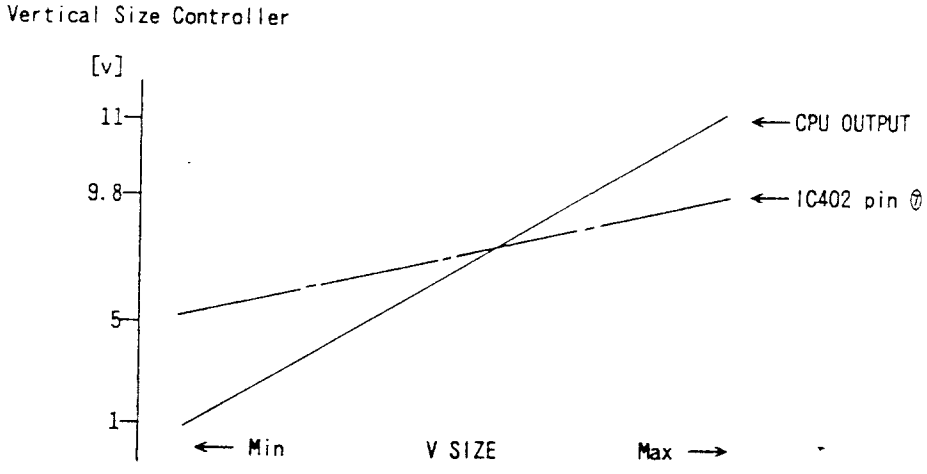
Explanation: the CPU PWB outputs the DC V Position signal as shown in Fig.3.3.2. The CPU generates the DC signal and the DC reference signal (= 8.2V) at IC402 pin ⑫. This voltage is amplified by the differrential amplifier comprised of the OP-AMP (IC402), R452, and R453. Therefore, each DC voltages as shown in Fig. 3.3.2. As a result, the value of DC current through the vertical deflection yoke changes as shown in Fig. 3.3.2 as the vertical position moves up or down.



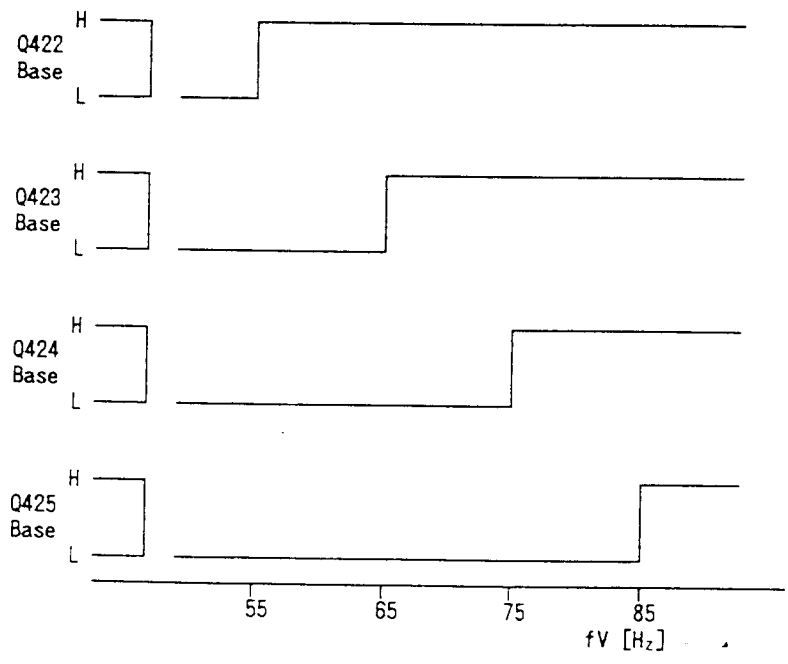
(Fig. 3.3.2)

3.3.3 Vertical Size Circuit

The vertical picture size is adjusted to 237mm using VR421 while the input signal is the VGA350 line mode V SIZE control is maximum. The vertical size is adjusted for pre-set timing, and it is written to E^2 PROM. Vertical size control circuit explanation.
The DC signal to control V SIZE is output from CPU PWB, and the voltage at IC402 pin ⑦ changes in proportion to V SIZE as shown in Fig. 3.3.3.a.
The vertical size logic table is shown in Fig. 3.3.3.b.
Q422, Q423, Q424 and Q425 are turned ON and OFF depending upon the vertical frequency input. These assures the same size raster regardless of the vertical frequency.



(Fig. 3.3.3.a)



(Fig. 3.3.3.b)

3.4 Blanking Circuit

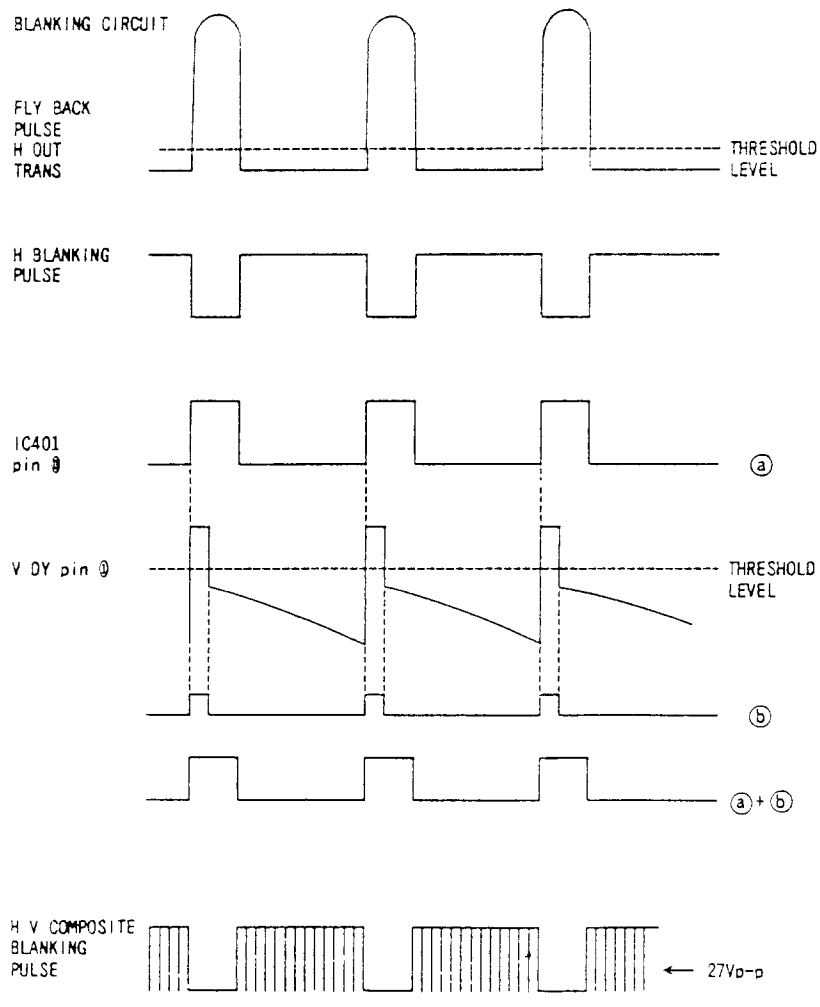
The blanking pulse is generated at "DEF PWB", and input to "CRT PWB". Then it is clamped by DC bottom clamp circuit, and input to G1 of CRT. Therefore, the voltage of G1 is changed by blanking pulse as shown in Fig.3.4, and retrace line is blanked at lower voltage G1. Blanking pulse generator circuit explanation.

3.4.1 Horizontal Blanking Circuit

The fly back pulse of the H out trans is input to base of Q5R2 through R5R4, D5R1, and C5R1 turning it off and on. Then the horizontal blanking pulse is generated collector of Q5R2.

3.4.2 Vertical Blanking Circuit

The vertical output wave is shaped by ZD5R1's breakdown voltage, and together with the pulse, pin ⑱ (IC401) as the vertical blanking pulse. The horizontal and vertical blanking pulse are mixed at the collector of Q5R2, Q5R0 and Q5R1.



(Fig. 3.4)

3.5 Picture Distortion Correction Circuit (SDP PWB 339A)

3.5.1 Side Pincushion Circuit

This model has the following two types of side pincushion correction.

(1) Horizontal Deflection Control Voltage

The side pincushion distortion is corrected by controlling the horizontal deflection circuit power supply voltage.

The cintrol voltage waveform is supplied to the error amplifier IC5G1 pin ⑥ of the H SIZE controller through R5H5 and C5H1.
The control voltage waveform circuit consists of IC5S1 to S5 and their ambient circuit.

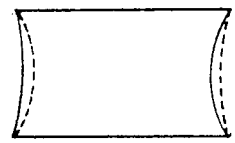
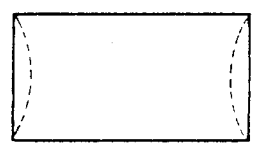
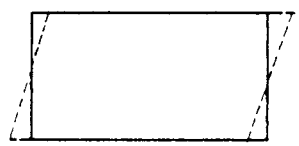
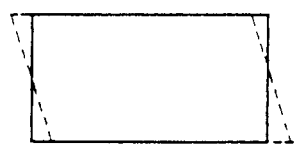
The voltage waveform between the both sides of the vertical S-correction capacitor C410 are supplied to the deferential amplifier IC5S2 pin ② and ③. As the result, the vertical palabolic waveform is supplied from IC5S2 pin ① to IC5S1 pin ⑨. IC5S1 is the vertical frequency correction multiplier. The DC voltage of the V-F/V converter of CPU is supplied to IC5S1 pin ④ through IC5S2, Q5S1, and connector SA-6. Approx. 5Vp-p V-palabolic waveform, which is corrected vertical frequency tracking, is output at IC5S1 pin ⑧, and is supplied to IC5S5 pin ⑤ through IC5S3 pin ⑦.

IC5S5 is the horizontal width and CPU multiplier.
For horizontal width correction, the DC voltage of the horizontal deflection circuit power supply is supplied to IC5S4 pin ⑤ through R5W9, R5X0, C5X1 and connector SA-8. User control side pincushion explanation. The CPU controlled DC voltage is supplied to IC5S5 pin ⑥ and ⑧ through IC5S4 and connector SA-7. The control range is approx. 1V DC (4% barrel) to 11V DC (1.5% pin) at connector SA-7. Normally, CPU output is 6V DC at SA-7 without CPU control. Leave user control at factory preset for optimum pincushion performance preset. At that case the user control range may be shift little bit (approx. 2% barrel to 1% pin). By CPU control, user can adjust the side pincushion each range devided by horizontal frequency 33k, 43k, 50k, 62k, 71kHz.

VR5S2 (SIDE PIN) is a variable resister to adjust the side pincushion for dispersion correction.

(2) Control of the horizontal sync. phase for correction of right and left sides dispersion.

The deflection yoke has a distortion dispersion of right and left pincushion. To reduce this dispersion, the parabolic voltage is supplied to horizontal phase shifter circuit. The balance of the right and left distortion is adjusted by using the VR5U1. There is no correction at the center position of VR5U1 adjustment, and the palabolic waveform voltage level and polarity is changed by adjusting clockwise or counterclockwise.

CORRECTION	VOLTAGE WAVEFORM	PICTURE
Balance of right and left side pincushion	at connecter SA pin ② clockwise counterclockwise 	
Side pincushion	at IC5S4 pin ⑭ 	
Parallel	at connecter pin ① clockwise counterclockwise 	 

(Fig. 3.5)

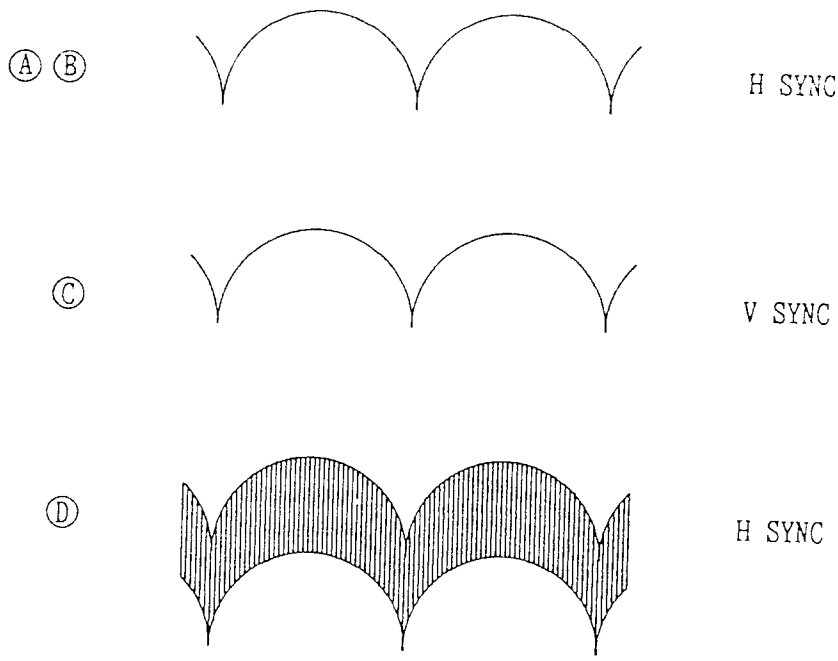
3.5.2 Parallel Distortion Correction Circuit

To correct the parallel distortion, the sawtooth voltage is supplied to the horizontal phase shifter circuit. The balance of the right and left distortion is adjusted by using the VR5W1. There is no correction at the center position of VR5W1 adjustment, and the sawtooth waveform voltage level and polality is changed by adjusting clockwise or counterclockwise.

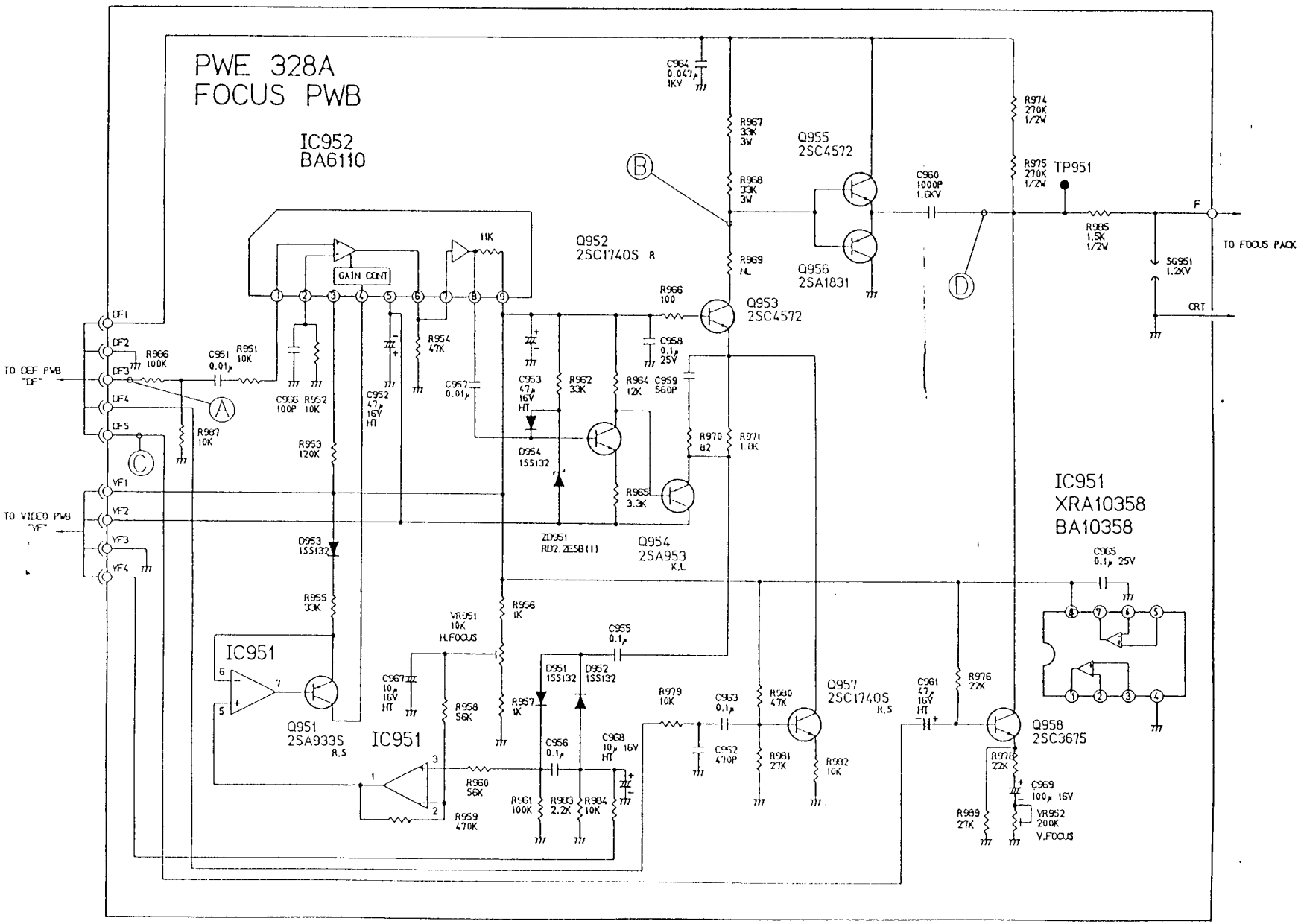
4. Focus Circuit

A vertical parabolic signal is fed to CN-DF5, amplified by Q958, and then output. A horizontal parabolic signal is fed to CN-DF3, but Vp-p value varies depending upon the frequency. The control is made by IC951, IC952, and associated circuits so that the output becomes constant.

The parabolic wave output from pin ⑧ of IC952 is amplified by Q952, Q953, and Q954 and the H parabolic wave and the V parabolic wave are mixed by C960 for output to the focus pack.



(Fig. 4.a)


PWE 328A
FOCUS PWB
IC952
BA6110
Q952
2SC1740S R
Q953
2SC4572
Q954
2SA953
K.L
Q955
2SC4572
Q956
2SA1831
Q957
2SC1740S
R.S
Q958
2SC3675
Q951
2SA933S
R.S
IC951
IC951
XRA10358
BA10358
GAIN CONT
TO DEF PWB
"DF"
TO VIDEO PWB
"VF"
TO FOCUS PACK
TP951
CRT
H.FOCUS
V.FOCUS
ZD951
RD2.2ESB(1)
D953
1SS132
D954
1SS132
D951
1SS132
D952
1SS132
R967
33K
3W
R968
33K
3W
R969
NL
R974
270K
1/2W
R975
270K
1/2W
R985
1.5K
1/2W
SG951
1.2KV
C960
1000P
1.6KV
C964
0.047μ
1KV
R966
100
R951
10K
C951
0.01μ
R952
10K
C952
47μ
16V
NT
C953
47μ
16V
NT
C954
0.01μ
R954
47K
R962
33K
R964
12K
C959
560P
C958
0.1μ
25V
R970
82
R971
1.8K
R965
3.3K
R953
120K
R955
33K
R956
1K
R957
1K
R958
56K
R960
56K
R959
470K
R961
100K
R963
2.2K
R964
10K
C955
0.1μ
C956
0.1μ
C957
10μ
16V
NT
C968
10μ
16V
NT
R979
10K
C963
0.1μ
R980
47K
R981
27K
R982
10K
C952
470P
C961
47μ
16V
NT
R976
22K
R978
22K
C969
100μ
16V
R969
27K
VR952
200K
V.FOCUS
C965
0.1μ
25V
VR951
10K
H.FOCUS
C967
10μ
16V
NT
R967
10K
R966
100K
C966
100P
R952
10K
11K
DF1
DF2
DF3
DF4
DF5
VF1
VF2
VF3
VF4
A
B
C
D
F

(Fig. 4. b)

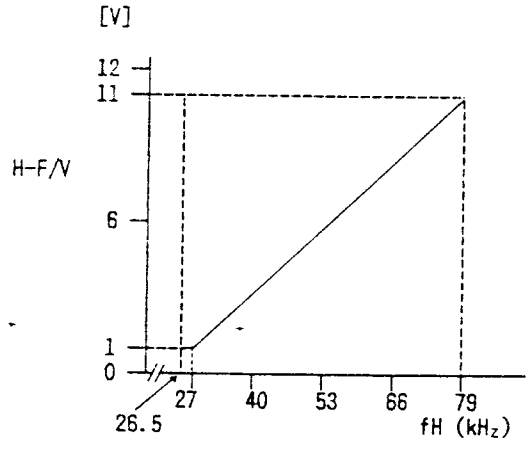
5. CPU Circuit

5.1 H-f/V Function

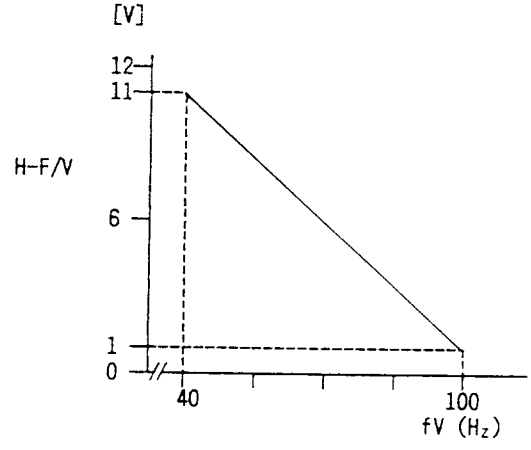
The horizontal sync signal wave shaped on the Video PWB is fed to pin ㉒ of the CPU. The CPU counts the frequency of the horizontal sync signal, and the appropriate DC voltage is output from IC802 (D/A converter) pin ④. This voltage is amplified by the amplifier 2.4 times and output to the DEF PWB via CN-P3. (See Fig. 5.1.)

5.2. V-f/V Function

The vertical sync signal waveform shaped on the Video PWB is fed to pins ⑳ and ㉖ of CPU. The CPU counts the frequency of the vertical sync signal, and the appropriate DC voltage is output from IC802 (DAC) pin ⑤. This voltage is amplified 2.4 times and output to the DEF PWB via CN-P6. (See Fig. 5.2)



(Fig. 5.1)

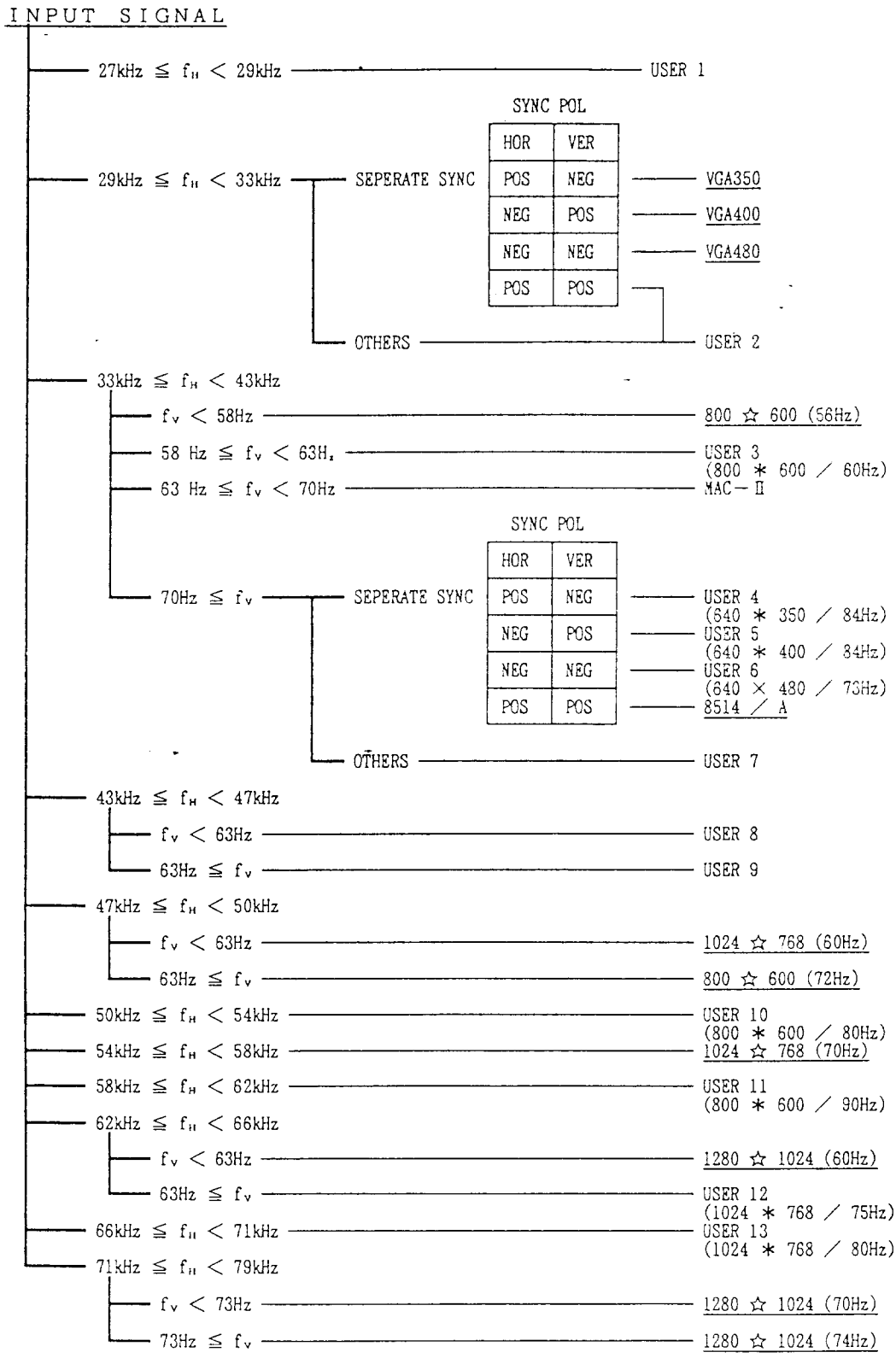


(Fig. 5.2)

5.3 Automatic Signal Discrimination Function

The CPU discriminates the input signal based on the horizontal/vertical frequencies, sync signal type, i.e. separate sync, separate composite sync or sync on green, and the sync polarity scheme (positive/negative). Refer to "Signal Identification Flow Chart" (Fig. 5.3) for further details.

SIGNAL IDENTIFICATION FLOWCHARTHART



NOTE: ☆☆☆ SIGNAL HAS BACK UP MEMORY (12 SIGNALS).

(Fig. 5.3)

5.4 User Control Function

When the user switch on the Control PWB is pressed, the encoded signal (the circuit consisting of D101-D116) is fed to the CPU via CN-C2 - C7. The CPU causes data in the CPU to be changed by the above signal.
The user control function is divided into three by the user level.

5.4.1 User Level 1

The following control is done at user level 1.

Function	Output Pin of IC802	"CN-P"	Dwg. NO.
H POSITION	pin ⑫	pin ①	5.4.1.a
H SIZE	pin ⑭	pin ②	5.4.1.b
V POSITION	pin ⑯	pin ④	5.4.1.c
V SIZE	pin ⑮	pin ⑤	5.4.1.d

The CPU outputs DC voltage meeting the changed data from IC802 (D/A converter).

5.4.2 User Level 2

At user level 2, side pincushion corrections and R/G/B intensity adjustments are made.

(1) Side-Pin

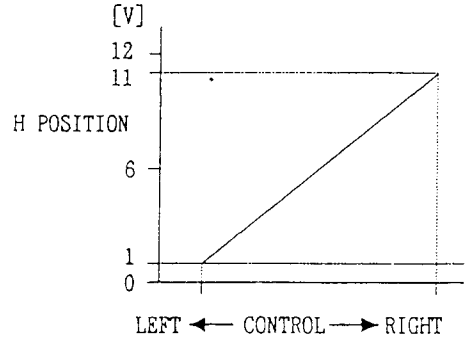
The operation of side-pin is the same as in the case of user level 1 (output pin of IC802: pin ⑥, "CN-P": pin ⑦ Dwg. No. 5.4.2.a).

(2) R/G/B Intensity

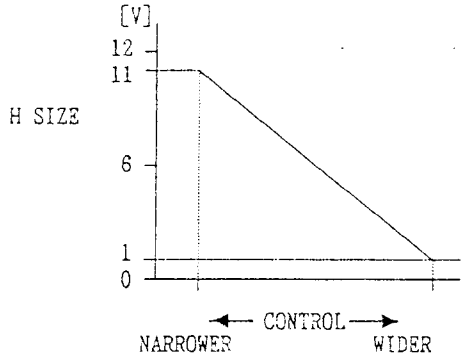
When the data is changed by the user control switch, the CPU causes the output (R: pin ⑬, G: pin ②, and B: pin ④) of IC861 (multiplier D/A converter) to be varied for each color. As a result, the amplitude of the video output voltage can be controlled for each color independently of others.

5.4.3 User Level 3

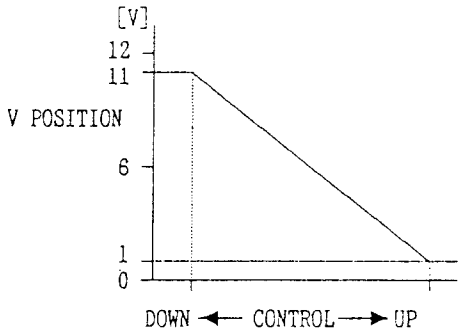
The control of R/G/B Sub-Brightness is made at user level 3. When the data is changed by the user control switch, the CPU cause the output voltage (R: pin ⑬, G: pin ②, B: pin ④) of IC860 (multiplier D/A converter) to be varied for each color. The cathode bias level can be controlled for color independently of others.



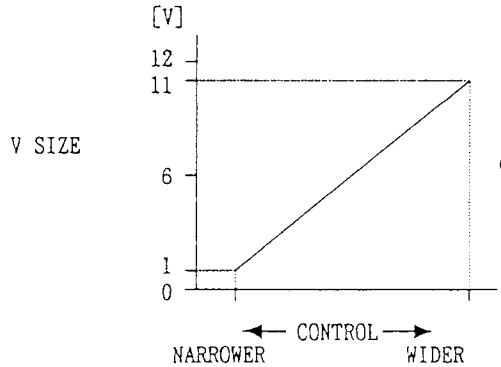
(Fig. 5.4.1.a)



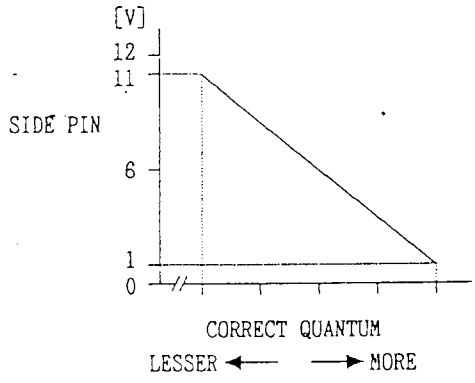
(Fig. 5.4.1.b)



(Fig. 5.4.1.c)



(Fig. 5.4.1.d)



(Fig. 5.4.2.a)

5.5 Data Memory Function

Each data described in step 5.4 is automatically stored in IC804 (E^2 PROM) four seconds after the last user control key has been pressed.
Data of horizontal and vertical amplitude and position data described in step 5.3 is stored in E^2 PROM by changing the address for each signal.
Side-pin data is stored in memory by changing the address at each band of horizontal frequency.
Data of R/G/B intensity and that of R/G/B Sub-Brightness is stored in memory by changing the address at each color set by the color switch (SW112).
The address of each data in E^2 PROM is shown in Fig. 5.5.

5.6 Various Switching Output

A switchover output from the CPU drives the horizontal/vertical oscillation/output circuits.

5.6.1 Horizontal System

The switchover output of the horizontal system is shown in Fig. 5.6.1.

5.6.2 Vertical System

The switchover output of the vertical system is shown in Fig. 5.6.2.

EEPROM MEMORY MAP

256 WORDS*8 BITS

MEMORY NAME	FACTORY DATA (BACK UP) H PS	H SZ	V PS	V SZ	USER DATA H PS	H SZ	V PS	V SZ
VGA350	00	01	02	03	30	31	32	33
VGA400	04	05	06	07	34	35	36	37
VGA480	08	09	0A	0B	38	39	3A	3B
800*600(56Hz)	0C	0D	0E	0F	3C	3D	3E	3F
MAC－II	10	11	12	13	40	41	42	43
8514A	14	15	16	17	44	45	46	47
1024*768(60Hz)	18	19	1A	1B	48	49	4A	4B
800*600(72Hz)	1C	1D	1E	1F	4C	4D	4E	4F
1024*768(70Hz)	20	21	22	23	50	51	52	53
1280*1024(60Hz)	24	25	26	27	54	55	56	57
1280*1024(70Hz)	28	29	2A	2B	58	59	5A	5B
1280*1024(74Hz)	2C	2D	2E	2F	5C	5D	5E	5F
USER 1	——	——	——	——	60	61	62	63
USER 2	——	——	——	——	64	65	66	67
USER 3	——	——	——	——	68	69	6A	6B
USER 4	——	——	——	——	6C	6D	6E	6F
USER 5	——	——	——	——	70	71	72	73
USER 6	——	——	——	——	74	75	76	77
USER 7	——	——	——	——	78	79	7A	7B
USER 8	——	——	——	——	7C	7D	7E	7F
USER 9	——	——	——	——	80	81	82	83
USER 10	——	——	——	——	84	85	86	87
USER 11	——	——	——	——	88	89	8A	8B
USER 12	——	——	——	——	8C	8D	8E	8F
USER 13	——	——	——	——	90	91	92	93

(SPACE)	94～CD (58 WORDS)

	FACTORY DATA FOR COLOR N (BACK UP FOR #1, #2)	USER DATA FOR COLOR #1	USER DATA FOR COLOR #2
RGBFLG	CE	D8	E2
R INTENSITY	CF	D9	E3
G INTENSITY	D0	DA	E4
B INTENSITY	D1	DB	E5
R SUB-BRT(SIGN)	D2	DC	E6
R SUB-BRT(VALUE)	D3	DD	E7
G SUB-BRT(SIGN)	D4	DE	E8
G SUB-BRT(VALUE)	D5	DF	E9
B SUB-BRT(SIGN)	D6	E0	EA
B BRT(VALUE)	D7	E1	EB

	FACTORY DATA (BACK UP)	USER DATA
SIDE-PIN DATA 1	EC	ED
SIDE-PIN DATA 2	EE	EF
SIDE-PIN DATA 3	F0	F1
SIDE-PIN DATA 4	F2	F3
SIDE-PIN DATA 5	F4	F5
SIDE-PIN DATA 6	F6	F7
SIDE-PIN (VGA350)	F8	F9
SIDE-PIN (VGA480)	FA	FB

(SPACE)	FC	SIDE-PIN ADJUST INITIAL FLAG	FD

EEPROM INITIAL FLAG	FE

SELF ADJUST FLAG	FF

NOTE: H PS: HORIZONTAL POSITION V PS: VERTICAL POSITION
H SZ: HORIZONTAL SIZE V SZ: VERTICAL SIZE

(Fig. 5.5)

H Select Output

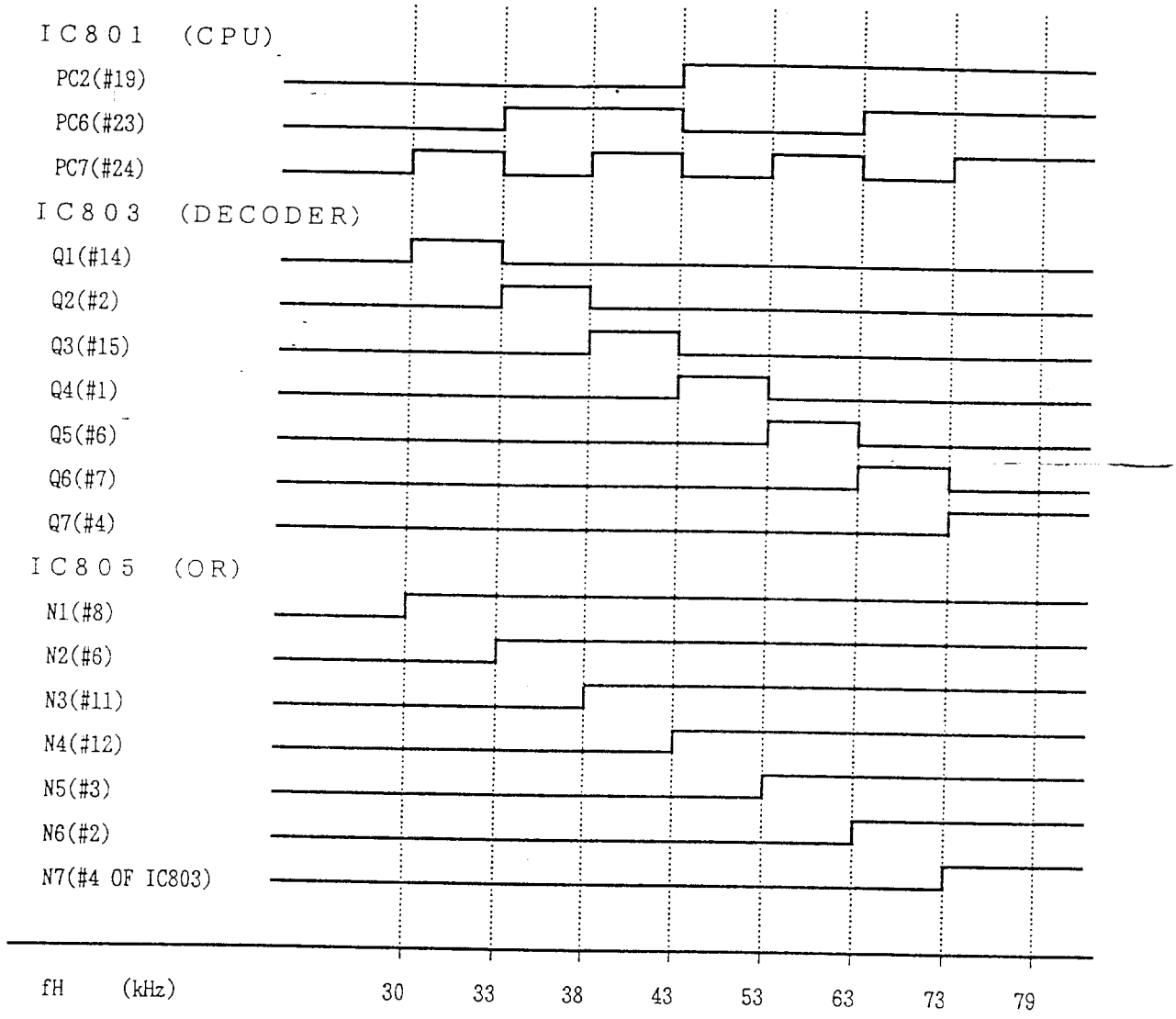


Fig. 5.6.1

V Select Output

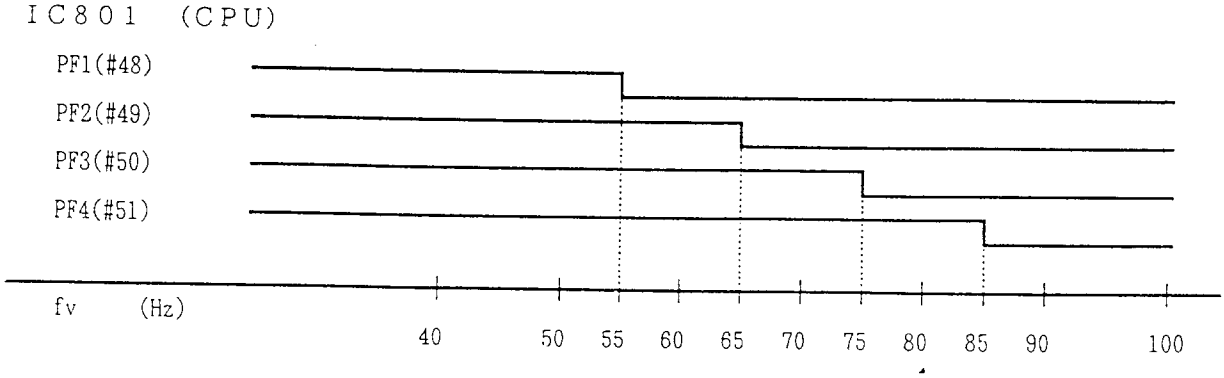
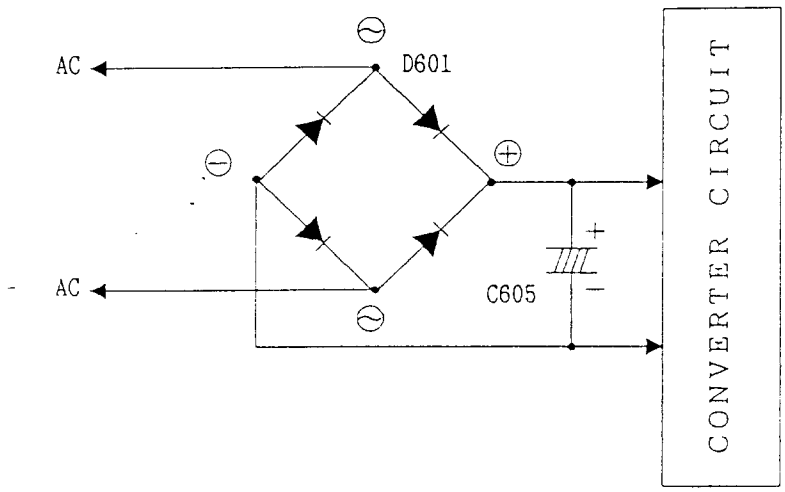


Fig. 5.6.2

6. SWITCHING REGULATOR UNIT

6.1 Rectifying and smoothing circuit

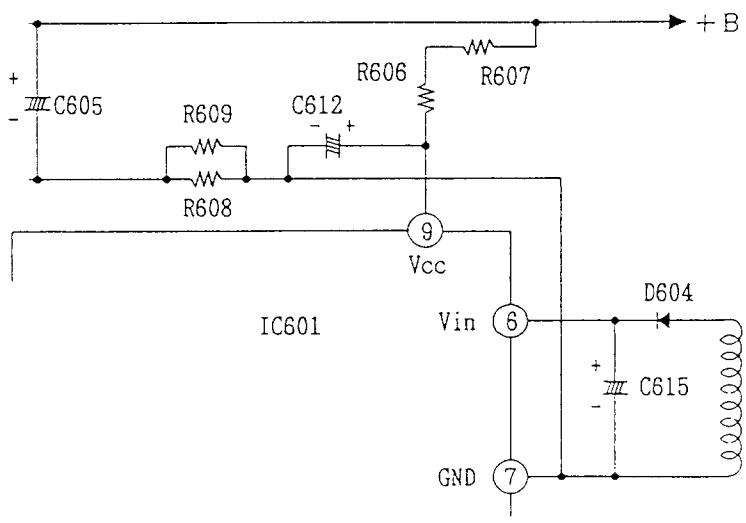
AC input is rectified by D601. Then, it is smoothed by C605. The resulting DC voltage is supplied to the converter circuit.



(Fig. 6.1) Rectifying and Smoothing Circuit

6.2.1 Auxiliary power supply circuit (JC-1741UMA/JC-1742UMA)

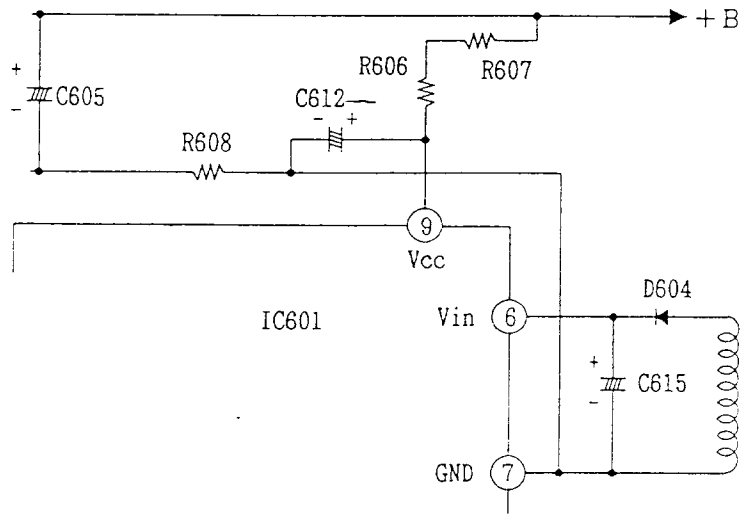
The auxiliary power supply circuit is needed to activate IC601. When the power is turned on, the charging current flows into the capacitors C612 via R606 and R607.
Oscillation starts when the voltage of IC601 pin 9 reaches 17V by this charging operation.
After the start of oscillation, the forward voltage of the auxiliary winding for the switching transformer is rectified and smoothed by D604 and C615. The resulting DC voltage is supplied to IC601 pin 6.



(Fig. 6.2.1) Auxiliary Power Supply Circuit

.2.2 Auxiliary power supply circuit (JC-1741UMB/B(EE)/R)

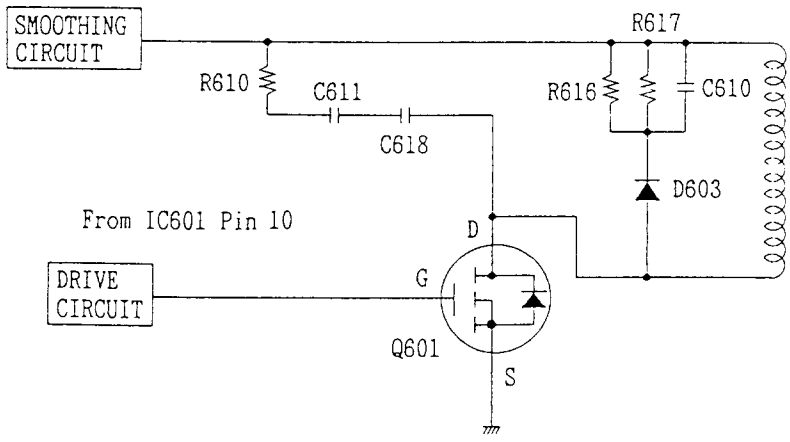
The auxiliary power supply circuit is needed to activate IC601. When the power is turned on, the charging current flows into the capacitors C612 via R604 and R607.
Oscillation starts when the voltage of IC601 pin 9 reaches 17V by this charging operation.
After the start of oscillation, the forward voltage of the auxiliary winding for the switching transformer is rectified and smoothed by D604 and C615. The resulting DC voltage is supplied to IC601 pin 6.



(Fig. 6.2.2) Auxiliary Power Supply Circuit

.3 Converter circuit

The converter circuit consists of the primary winding of the switching transformer T601, a switching device Q601, and surge absorbers (C610, R616, R617, D603, C611, C618 and R610) that are connected to the primary winding. The oscillating signal from IC601 pin 10 is applied to the gate of Q601 causing the drain-source to be turned OFF and ON so that the oscillating voltage is applied to the primary winding of T601.

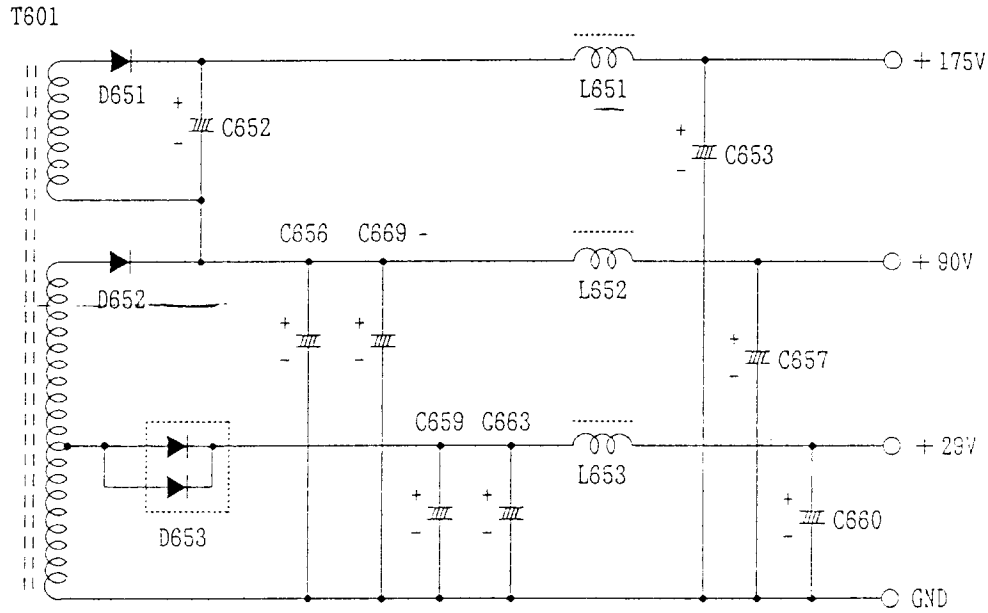


(Fig. 6.3) Converter Circuit

6.4 Output rectifying and smoothing circuit

The fly-back voltages generated at the secondary windings of the switching transformer T601 are rectified by D651, D652 and D653. Then, these voltages are smoothed by C652, C653, C656, C669, C657, C659, C663 and C660 so that rectified DC voltages are obtained.

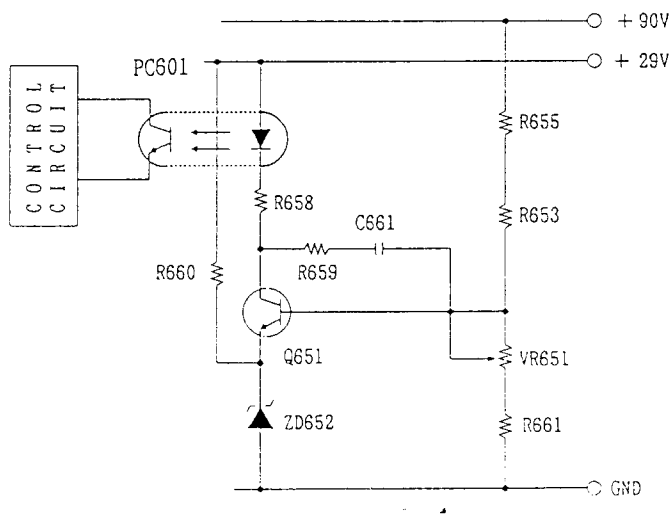
The fly-back voltages are kept constant by controlling the ON period duty cycle of Q601 in the converter circuit.



(Fig. 6.4) Output Rectifying and Smoothing Circuit

6.5 Error detection amplifier circuits

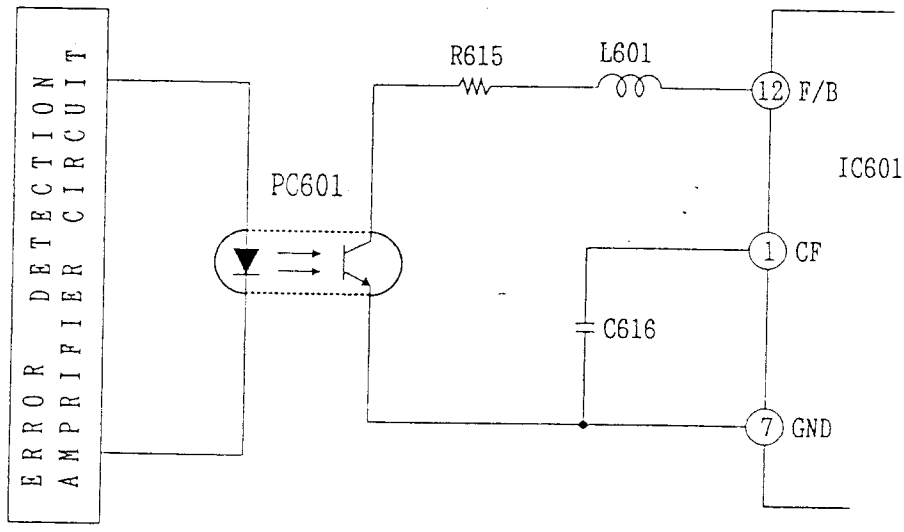
The output voltage 90V is divided by the network resistors. This divided voltage is compared to the reference voltage at the error amplifier Q651, and ZD652. An error signal is applied to the control circuit via the photocoupler PC601.



(Fig. 6.5) Error Detection Amplifier Circuit

.6 Oscillating and control circuits

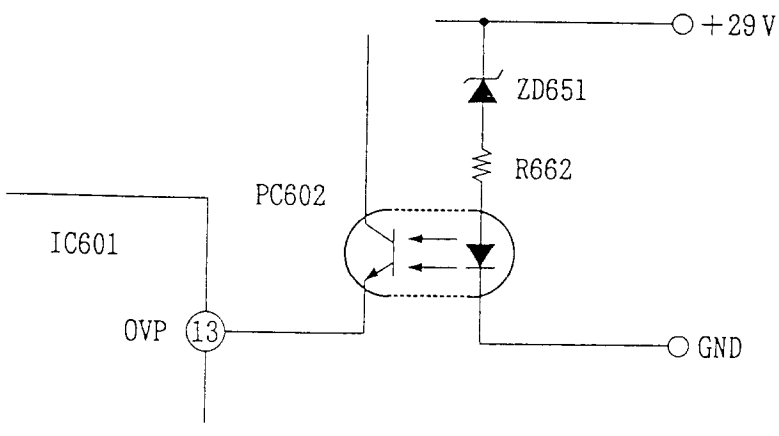
The oscillating and control circuits are contained in IC601.
IC601 has a built-in oscillator whose frequency is determined by C616 connected to pin 1. The output of the error detection amplifier circuit is feed back to the control circuit pin 12 via PC601 to control the duty cycle of Q601 so that output voltage is kept constant.



(Fig. 6.6) Oscillating and Control Circuit

7 Over voltage protection

If some failure occurs and the 29V line output voltage increases beyond 33V to 38V, the voltage at the output is sensed by the Zener Diode ZD651. These Diode will activate the LED within the photocoupler PC602, and turn on the transistor within it.
Once the transistor is on, pin 13 voltage of IC601 will go high, stopping the oscillation within this IC.



(Fig. 6.7) Over Voltage Protection

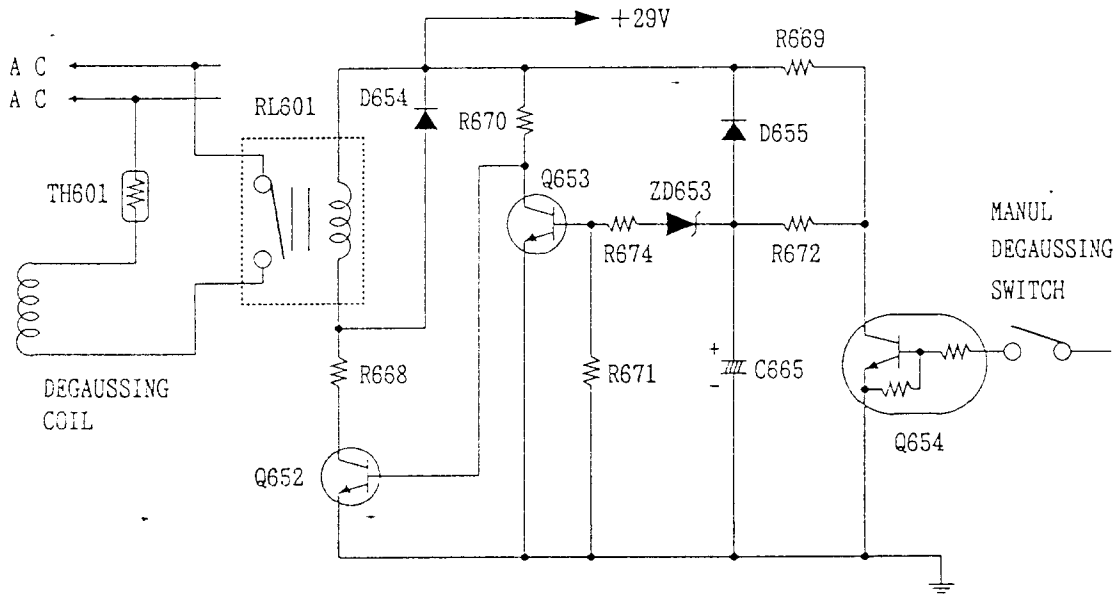
6.8 Auto and manual degaussing circuit

(1) Auto Degaussing Circuit

When the unit is turned ON. The 29V DC output at K3 rises. This will cause Q652 to turn ON. During the period of Q652 turned on, the current flows through the Degaussing Coil.
The ON period for this transistor is determined by R669, R672, ZD653 and C665. (approx. 3 sec.)
After the approx. 3 sec, Q653 turn on, and this will cause Q652 to turn off.

(2) Manual Degaussing Circuit

When the Degaussing switch is turned ON, Q654 conducts discharging C665. Therefore, Q653 turns off and Q652 is turned on. Then current flow through the Degaussing Coil, and the current flow through it until approx 3 sec after the Degaussing switch is off.



(Fig. 6.8) Auto and Manual Degaussing Circuit

REPLACEMENT PARTS LIST

JC-1741
UMA

The components specified Model JC-1741UMA

Note: The components identified by ⚠ make are critical for safety.
Replace only with parts Number specified.

SYMBOL	PARTS NO	DESCRIPTION
***	CRT & TUNER	***
⚠CRT	33017501	CRT AF17G9SLB22-C-TC06
***	ICS	***
⚠IC2001	37011132	IC UPC4082C (OP-AMP)
⚠IC2002	37011132	IC UPC4082C (OP-AMP)
IC401	37056887	IC TDA1675A
IC402	37011024	IC UPC3403C (OP-AMP)
IC431	37051036	MOS UPD4066BC
IC471	37011206	IC XRA10358 (OP-AMP)
IC5A1	37053390	MOS HD74HC123AP
⚠IC5E1	370A1009	IC UPC1093J-T (REG)
⚠IC5E2	37011262	IC XRA10393 (COMP)
IC5G0	37011262	IC XRA10393 (COMP)
IC5G1	37011024	IC UPC3403C (OP-AMP)
IC5S1	37056618	IC BA6110
IC5S2	37011206	IC XRA10358 (OP-AMP)
IC5S3	37011210	IC XRA10324 (Q OP-AMP)
IC5S4	37011210	IC XRA10324 (Q OP-AMP)
IC5S5	37056877	IC NJM4200D (MULTIPLIER)
⚠IC501	37056295	IC LA7851
IC502	37051179	IC SN74LS123N (MONO MLT)
IC503	37011018	IC UPC311C (COMP)
IC504	37011210	IC XRA10324 (Q OP-AMP)
IC505	37051036	MOS UPD4066BC
IC506	37011206	IC XRA10358 (OP-AMP)
IC509	37011206	IC XRA10358 (OP-AMP)
IC510	37101543	IC XRA10339
IC511	37101543	IC XRA10339
IC571	37056885	IC NJM3404AD
IC601	37056810	IC M67297 (SW.REG CONT)
IC701	37056814	IC M52035P
IC702	37056433	IC M51399P
IC703	37056433	IC M51399P
IC704	37056433	IC M51399P
IC705	37056905	IC VPA12H
IC706	37056905	IC VPA12H
IC707	37056905	IC VPA12H
IC8A1	37056885	IC NJM3404AD

SYMBOL	PARTS NO	DESCRIPTION
Q452	35063411	TR,2SD401A K
Q461	35065416	TR,2SD882 P
Q462	350E3218	TR 2SC1740S-T R
Q471	35065416	TR,2SD882 P
Q481	35056311	TR 2SC2688 K
Q482	35058905	TR,2SC1841 E
Q5A1	350H5018	TR,2SC3811-TA R
Q5A2	35050918	TR 2SC1384 R
Q5A3	350K4412	TR 2SA952 L,AT
⚠Q5A4	35122800	TR 2SK1271
⚠Q5A5	35122800	TR 2SK1271
⚠Q5E0	351G0602	TR DTC144ES-T
⚠Q5E1	35050918	TR 2SC1384 R
⚠Q5E2	350K4411	TR 2SA952 K,AT
⚠Q5E3	35126300	TR 2SK806
⚠Q5E4	351G0553	TR DTA143ES-T
Q5G0	351G0601	TR DTC114ES-T
Q5G1	350K5718	TR 2SA933S-T R
Q5G2	350E3218	TR 2SC1740S-T R
Q5G3	350K5718	TR 2SA933S-T R
Q5G4	350E3218	TR 2SC1740S-T R
Q5G5	350K4518	TR 2SA933-T R
Q5G6	35122500	TR 2SK758
Q5M0	350K5718	TR 2SA933S-T R
Q5M1	350E3218	TR 2SC1740S-T R
Q5M2	350K4518	TR 2SA933-T R
Q5M3	35122500	TR 2SK758
⚠Q5M4	350A1500	TR 2SA1767-TA
Q5R0	351G0601	TR DTC114ES-T
Q5R1	351G0655	TR DTC143ES-TP
Q5R2	350H5018	TR,2SC3811-TA R
Q5R3	350E3218	TR 2SC1740S-T R
Q5R4	350K4518	TR 2SA933-T R
Q5S1	350K5718	TR 2SA933S-T R
Q50A	351G0602	TR DTC144ES-T
Q501	350K4518	TR 2SA933-T R
Q502	350H5018	TR,2SC3811-TA R
Q51A	351G0602	TR DTC144ES-T
Q52A	351G0602	TR DTC144ES-T

SYMBOL	PARTS NO	DESCRIPTION
IC8A2	37011262	IC XRA10393 (COMP)
IC8G0	37011018	IC UPC311C (COMP)
IC8G1	37011262	IC XRA10393 (COMP)
IC8G2	37011018	IC UPC311C (COMP)
IC8G3	37056867	IC M52036SP
IC8G4	37051179	IC SN74LS123N (MONO MLT)
IC8G5	37051096	IC SN74LS367AN (BUFF)
IC801	37056915	IC UPD78C12AGQ-A66-36
IC802	37056813	IC M62359P
IC803	37051042	MOS UPD4028BC (BCD DECI)
IC804	37055401	MOS XRM93C56B-E
IC805	37053036	MOS SN74HC32N (OR)
IC806	37011210	IC XRA10324 (Q OP-AMP)
IC807	37011210	IC XRA10324 (Q OP-AMP)
IC808	37011210	IC XRA10324 (Q OP-AMP)
IC809	37011206	IC XRA10358 (OP-AMP)
IC810	37011206	IC XRA10358 (OP-AMP)
IC811	370E6005	IC PST518A
IC860	37056812	IC M62362P
IC861	37056812	IC M62362P
IC862	37011210	IC XRA10324 (Q OP-AMP)
IC863	37011206	IC XRA10358 (OP-AMP)
IC864	37011210	IC XRA10324 (Q OP-AMP)
IC951	37011206	IC XRA10358 (OP-AMP)
IC952	37056618	IC BA6110
***	TRANSISTORS	***
CR601	35595014	TRIAC AC10DGM
Q2001	350K4518	TR 2SA933-T R
Q2002	350E3218	TR 2SC1740S-T R
Q2005	351G0601	TR DTC114ES-T
Q2006	351G0601	TR DTC114ES-T
Q2101	351G0655	TR DTC143ES-TP
Q421	350E3218	TR 2SC1740S-T R
Q422	351A0690	TR DTC115ES-TP
Q423	351A0690	TR DTC115ES-TP
Q424	351A0690	TR DTC115ES-TP
Q425	351A0690	TR DTC115ES-TP
Q451	35025211	TR 2SB546 K

SYMBOL	PARTS NO	DESCRIPTION
Q53A	351G0602	TR DTC144ES-T
Q54A	351G0602	TR DTC144ES-T
Q55A	351G0602	TR DTC144ES-T
Q56A	351G0560	TR DTA144WS-T
Q56C	351G0560	TR DTA144WS-T
Q56E	350K4518	TR 2SA933-T R
Q571	35025212	TR 2SB546 L
Q572	350E3218	TR 2SC1740S-T R
Q573	350K4518	TR 2SA933-T R
Q574	35122500	TR 2SK758
Q58A	351G0602	TR DTC144ES-T
⚠Q581	35094300	TR 2SC3998
Q59A	351G0560	TR DTA144WS-T
Q59C	351G0602	TR DTC144ES-T
Q59E	351G0560	TR DTA144WS-T
Q59F	351G0602	TR DTC144ES-T
Q591	35125700	TR 2SK947
Q592	35125700	TR 2SK947
Q593	35125700	TR 2SK947
Q594	35125700	TR 2SK947
Q595	35125700	TR 2SK947
Q596	35125700	TR 2SK947
Q601	35125900	TR,2SK1411
Q651	35053012	TR 2SC1941 L
Q652	350E3218	TR 2SC1740S-T R
Q653	350E3218	TR 2SC1740S-T R
Q654	351G0653	TR DTC123ES-T
Q7C0	350H5017	TR,2SC3811-TA Q
Q701	350H1811	TR,2SC2901 K-T
Q702	350H1811	TR,2SC2901 K-T
Q703	350H1811	TR,2SC2901 K-T
Q704	350H1811	TR,2SC2901 K-T
Q705	350H1811	TR,2SC2901 K-T
Q706	350H1811	TR,2SC2901 K-T
Q707	351G0601	TR DTC114ES-T
Q708	351G0600	TR DTA114ES-T
Q709	351G0601	TR DTC114ES-T
Q710	350H1811	TR,2SC2901 K-T
Q711	350K5718	TR 2SA933S-T R
Q712	350K5718	TR 2SA933S-T R

SYMBOL	PARTS NO	DESCRIPTION
Q713	350K5718	TR 2SA933S-T R
Q714	350E3218	TR 2SC1740S-T R
Q715	350E3218	TR 2SC1740S-T R
Q716	350E3218	TR 2SC1740S-T R
Q717	351G0602	TR DTC144ES-T
Q718	351G0602	TR DTC144ES-T
Q719	351G0601	TR DTC114ES-T
Q723	35080200	TR 2SC2407/2407A
Q724	35080200	TR 2SC2407/2407A
Q725	35080200	TR 2SC2407/2407A
Q726	350H1811	TR,2SC2901 K-T
Q727	350H1811	TR,2SC2901 K-T
Q728	350H1811	TR,2SC2901 K-T
Q731	350H1811	TR,2SC2901 K-T
Q732	350K7500	TR 2SA1206-T
Q733	350H1811	TR,2SC2901 K-T
Q734	351G0601	TR DTC114ES-T
Q740	350H4417	TR,2SC1473-TA Q
Q741	350H4417	TR,2SC1473-TA Q
Q742	350H4417	TR,2SC1473-TA Q
Q743	350K5217	TR,2SA1018-TA Q
Q744	350K5217	TR,2SA1018-TA Q
Q745	350K5217	TR,2SA1018-TA Q
Q8A1	35065416	TR,2SD882 P
Q8A2	350E3218	TR 2SC1740S-T R
Q8A3	350K5718	TR 2SA933S-T R
Q8A4	350E3218	TR 2SC1740S-T R
Q8A5	351G0601	TR DTC114ES-T
Q8A6	350E3218	TR 2SC1740S-T R
Q8A7	350K5718	TR 2SA933S-T R
Q8A8	350E3218	TR 2SC1740S-T R
Q8A9	35122600	TR 2SK701
Q8C0	35065416	TR,2SD882 P
Q8G0	351G0600	TR DTA114ES-T
Q8G1	351G0600	TR DTA114ES-T
Q8G2	351G0601	TR DTC114ES-T
Q8G3	351G0602	TR DTC144ES-T
Q8G4	351G0601	TR DTC114ES-T
Q901	351G0641	TR DTC114YS-T
Q902	351G0601	TR DTC114ES-T

SYMBOL	PARTS NO	DESCRIPTION
Q903	351G0601	TR DTC114ES-T
Q904	351G0601	TR DTC114ES-T
Q905	351G0601	TR DTC114ES-T
Q906	350H5018	TR,2SC3811-TA R
Q907	350E3218	TR 2SC1740S-T R
Q960	35560416	TR 2SD794A P
Q961	350E3218	TR 2SC1740S-T R
Q962	350E3218	TR 2SC1740S-T R
Q963	350K5718	TR 2SA933S-T R
Q964	350K5718	TR 2SA933S-T R
Q951	350K5718	TR 2SA933S-T R
Q952	350E3218	TR 2SC1740S-T R
Q953	35094200	TR 2SC4572
Q954	350K4311	TR 2SA953-T K
Q955	35094200	TR 2SC4572
Q956	35011600	TR 2SA1831
Q957	350E3218	TR 2SC1740S-T R
Q958	35084600	TR,2SC3675

*** DIODES ***

D101	360K1027	DI 1SS132 AT52
D102	360K1027	DI 1SS132 AT52
D103	360K1027	DI 1SS132 AT52
D104	360K1027	DI 1SS132 AT52
D105	360K1027	DI 1SS132 AT52
D106	360K1027	DI 1SS132 AT52
D107	360K1027	DI 1SS132 AT52
D108	360K1027	DI 1SS132 AT52
D109	360K1027	DI 1SS132 AT52
D110	360K1027	DI 1SS132 AT52
D111	360K1027	DI 1SS132 AT52
D112	360K1027	DI 1SS132 AT52
D113	360K1027	DI 1SS132 AT52
D114	360K1027	DI 1SS132 AT52
D115	360K1027	DI 1SS132 AT52
D116	360K1027	DI 1SS132 AT52
D120	36801340	LED SLR-34MC3F
D121	36801343	LED SLA-570MT3F(XJ,XK,XL)
D122	36801343	LED SLA-570MT3F(XJ,XK,XL)
D2003	360K1027	DI 1SS132 AT52

SYMBOL	PARTS NO	DESCRIPTION
⚠D2006	360K1027	DI 1SS132 AT52
⚠D2008	360K1027	DI 1SS132 AT52
D2101	360K1027	DI 1SS132 AT52
D2102	360K1027	DI 1SS132 AT52
D2103	360K1027	DI 1SS132 AT52
D401	360K1027	DI 1SS132 AT52
D402	359K2136	DIODE RGP10G,AT
D481	359K2136	DIODE RGP10G,AT
D482	360K1032	DIODE 1SS82-TA
D491	360K1032	DIODE 1SS82-TA
D5A0	360K1027	DI 1SS132 AT52
D5A1	360K1027	DI 1SS132 AT52
⚠D5A2	361K7312	DIODE EP01C-V
D5A3	360K1027	DI 1SS132 AT52
⚠D5D1	36107541	DIODE EG01A
⚠D5E1	360K1027	DI 1SS132 AT52
⚠D5E2	361K7562	DIODE EGP10G G23
⚠D5E3	36107541	DIODE EG01A
⚠D5E4	361K7562	DIODE EGP10G G23
D5G0	360K1027	DI 1SS132 AT52
D5G1	360K1027	DI 1SS132 AT52
D5G2	360K1027	DI 1SS132 AT52
D5G3	359K2136	DIODE RGP10G,AT
D5G4	360K1027	DI 1SS132 AT52
D5G5	360K1027	DI 1SS132 AT52
D5G6	360K1027	DI 1SS132 AT52
D5G7	36107638	DIODE EGP30G
D5G8	359K2136	DIODE RGP10G,AT
D5M0	360K1027	DI 1SS132 AT52
D5M2	360K1027	DI 1SS132 AT52
D5M3	360K1027	DI 1SS132 AT52
D5M4	360K1027	DI 1SS132 AT52
D5M5	361K7637	DIODE EGP20G G23
D5R1	360K1027	DI 1SS132 AT52
D501	360K1027	DI 1SS132 AT52
D502	360K1027	DI 1SS132 AT52
⚠D572	361K7562	DIODE EGP10G G23
D573	36107293	DIODE RK14
D574	36107293	DIODE RK14

SYMBOL	PARTS NO	DESCRIPTION
⚠D582	36108238	DIODE FMP-G3FS
⚠D583	36107560	DIODE RG2A2
⚠D584	36107560	DIODE RG2A2
D590	361K7562	DIODE EGP10G G23
D591	360K1027	DI 1SS132 AT52
D592	360K1027	DI 1SS132 AT52
D601	36008230	DIODE RBV-1506
D602	361K7303	DIODE EU02 V1
D603	36107774	DIODE RU1P
D604	361K7322	DIODE EL1Z-T
D605	360K1010	DIODE,SI,1S2472
D651	36107320	DIODE FMG-G26S
D652	36107320	DIODE FMG-G26S
D653	36108072	D,NETWORK DSLCA20
D654	360K1027	DI 1SS132 AT52
D655	360K1027	DI 1SS132 AT52
D656	36107178	DIODE RU3
D7G0	360K1027	DI 1SS132 AT52
D701	360K1027	DI 1SS132 AT52
D702	360K1027	DI 1SS132 AT52
D703	360K1027	DI 1SS132 AT52
D704	360K1027	DI 1SS132 AT52
D705	360K1027	DI 1SS132 AT52
D706	360K1027	DI 1SS132 AT52
D707	360K1027	DI 1SS132 AT52
D708	360K1027	DI 1SS132 AT52
D709	360K1027	DI 1SS132 AT52
D710	360K1027	DI 1SS132 AT52
D711	360K1027	DI 1SS132 AT52
D712	360K1027	DI 1SS132 AT52
D713	360K1027	DI 1SS132 AT52
D714	360K1027	DI 1SS132 AT52
D715	360K1027	DI 1SS132 AT52
D716	360K1027	DI 1SS132 AT52
D717	360K1027	DI 1SS132 AT52
D718	360K1027	DI 1SS132 AT52
D719	360K1027	DI 1SS132 AT52
D720	360K1027	DI 1SS132 AT52
D721	360K1027	DI 1SS132 AT52

SYMBOL	PARTS NO	DESCRIPTION
D722	360K1027	DI 1SS132 AT52
D723	360K1027	DI 1SS132 AT52
D725	360K1027	DI 1SS132 AT52
D726	360K1027	DI 1SS132 AT52
D727	360K1027	DI 1SS132 AT52
D728	360K1027	DI 1SS132 AT52
D729	360K1027	DI 1SS132 AT52
D730	360K1027	DI 1SS132 AT52
D731	369K2136	DIODE RGP10G,AT
D732	369K2136	DIODE RGP10G,AT
D755	360K1032	DIODE 1SS82-TA
D756	360K1032	DIODE 1SS82-TA
D757	360K1032	DIODE 1SS82-TA
D758	360K1032	DIODE 1SS82-TA
D759	360K1032	DIODE 1SS82-TA
D760	360K1032	DIODE 1SS82-TA
D761	360K1032	DIODE 1SS82-TA
D762	360K1032	DIODE 1SS82-TA
D763	360K1032	DIODE 1SS82-TA
D8A1	360K1027	DI 1SS132 AT52
D8A2	360K1027	DI 1SS132 AT52
D8A3	360K1027	DI 1SS132 AT52
D8A4	360K1027	DI 1SS132 AT52
D8A5	360K1027	DI 1SS132 AT52
D8A6	360K1027	DI 1SS132 AT52
D8A7	36107293	DIODE RK14
D8A9	361K7562	DIODE EGP10G G23
D8C0	361K7562	DIODE EGP10G G23
D8C3	369K2136	DIODE RGP10G,AT
D8C4	369K2136	DIODE RGP10G,AT
D8G0	360K1027	DI 1SS132 AT52
D8G1	360K1027	DI 1SS132 AT52
D8G2	360K1027	DI 1SS132 AT52
D8G3	360K1027	DI 1SS132 AT52
D8G4	360K1027	DI 1SS132 AT52
D8G5	360K1027	DI 1SS132 AT52
D8G6	360K1027	DI 1SS132 AT52
D8G7	360K1027	DI 1SS132 AT52
D8G8	360K1027	DI 1SS132 AT52

SYMBOL	PARTS NO	DESCRIPTION
D8G9	360K1027	DI 1SS132 AT52
D8H2	360K1027	DI 1SS132 AT52
D8H3	360K1027	DI 1SS132 AT52
D8H4	360K1027	DI 1SS132 AT52
D8C3	360K1027	DI 1SS132 AT52
D8C4	360K1027	DI 1SS132 AT52
D8C5	360K1027	DI 1SS132 AT52
D8C6	360K1027	DI 1SS132 AT52
D860	360K1027	DI 1SS132 AT52
D861	360K1027	DI 1SS132 AT52
D862	360K1027	DI 1SS132 AT52
D863	360K1027	DI 1SS132 AT52
D864	360K1027	DI 1SS132 AT52
D901	360K1027	DI 1SS132 AT52
D902	360K1032	DIODE 1SS82-TA
D951	360K1027	DI 1SS132 AT52
D952	360K1027	DI 1SS132 AT52
D953	360K1027	DI 1SS132 AT52
D954	360K1027	DI 1SS132 AT52
MD801	361K8233	DIODE DAN209S-TP
MD802	361K8233	DIODE DAN209S-TP
PC801	38200234	IC PC817C/D
PC802	38200234	IC PC817C/D
TH601	38102046	THERMISTOR 902P61D050MP14
⚠ZD2001	360K3416	DIODE RD5.1JSB(2)-T4
⚠ZD2002	360K3416	DIODE RD5.1JSB(2)-T4
ZD2101	360K3647	DIODE RD6.8ESB(2)-T4
ZD401	360K3617	DIODE RD3.3ESB(1)-T4
ZD451	369K5512	DIODE,ZENER RD18JSB2
ZD452	360K3118	DIODE,RD10EB(1)-T4
ZD461	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD471	360K3134	DIODE RD15EB(2)-T4
ZD5A0	360K3157	DIODE RD5.1EB(3)-T4
ZD5A1	360K3134	DIODE RD15EB(2)-T4
ZD5A2	360K3326	DIODE RD18EB(3)-T4
ZD5D1	360K3655	DIODE RD6.2ESB(2)/ESAB(2)
ZD5E0	360K3635	DIODE RD5.1ESB(2)-T4
⚠ZD5E1	360K3134	DIODE RD15EB(2)-T4
ZD5E2	360K3098	DIODE RD12EB(3)-T4

SYMBOL	PARTS NO	DESCRIPTION
⚠ZD5E4	360K3675	DIODE RD13ESB(2)-T4
ZD5G0	360K3654	DIODE RD8.2ESB(1)-T4
ZD5G1	360K3658	DIODE RD9.1ESB(1)-T4
ZD5G2	360K3624	DIODE RD3.9ESB(2)-T4
ZD5G3	360K3656	DIODE RD8.2ESB(3)-T4
ZD5R1	360K3145	DIODE RD27EB-T4
ZD5R2	360K3161	DIODE RD12EB(2)-T4
ZD501	360K3403	DIODE RD5.1JSB(1)-T4
ZD502	360K3188	DIODE RD3.9EB(2)-T4
ZD503	360K3160	DIODE RD8.2EB(2)-T4
ZD561	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD571	360K3134	DIODE RD15EB(2)-T4
ZD591	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD592	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD651	360K3721	DIODE RD36ESB(3)-T4
ZD652	360K3124	DIODE RD8.2EB (3)-T4
ZD653	360K3123	DIODE RD20EB(3)
ZD710	360K3654	DIODE RD8.2ESB(1)-T4
ZD711	360K3300	DIODE RD2.0EB(1)-T4
ZD712	360K3300	DIODE RD2.0EB(1)-T4
ZD713	360K3300	DIODE RD2.0EB(1)-T4
ZD8A1	360K3654	DIODE RD8.2ESB(1)-T4
ZD8A2	360K3683	DIODE RD16ESB(2)-T4
ZD8A3	360K3169	DIODE RD6.2EB(2)-T4
ZD8A4	360K3634	DIODE RD5.1ESB(1)-T4
ZD801	360K3087	DIODE RD3.0EB-T4
ZD802	367K0017	DIODE RD4.7EB-T4
ZD8C3	360K3537	DIODE RD5.6ESB-T4
ZD860	360K3114	DIODE 8.2EB(1)
ZD861	367K0048	DIODE RD5.1FB(2)
ZD951	360K3605	DIODE RD2.2ESB(1)-T4

*** TRANSFORMERS ***

L5G1	46206006	TRANS,CHOKE 2MH
L5M1	46206005	TRANS,CHOKE 4MH
⚠T8A1	47105677	F.B.T.(SR)
T5G0	46302105	TRANS,FERRITE
T5M0	46302105	TRANS,FERRITE
T571	45804008	TRANS,H.DRIVE
⚠T581	47710017	TRANS,H.OUTPUT
T801	46311115	TRANS,SWITCHING W328
T8A1	46304111	TRANS,CONVERTER

*** VARIABLE RESISTORS ***

VR101	41011106	R,VARIABLE B10K-V
VR102	41011106	R,VARIABLE B10K-V
⚠VR2001	41505007	R,VARIABLE B5K
VR401	41085009	R,VARIABLE B10K
VR411	41085005	R,VARIABLE B1K
VR421	41085009	R,VARIABLE B10K
VR431	41085015	R,VARIABLE B300K
VR441	41085012	R,VARIABLE B50K
VR461	41085056	R,VARIABLE B2K
VR5D1	41505005	R,VARIABLE B2K
⚠VR5E1	41505007	R,VARIABLE B5K
VR5S2	41085066	R,VARIABLE B500K
VR5U1	41085059	R,VARIABLE B10K
VR5W1	41085059	R,VARIABLE B10K
VR56A	41085012	R,VARIABLE B50K
VR56C	41085014	R,VARIABLE B200K
VR56E	41085014	R,VARIABLE B200K
VR590	41085009	R,VARIABLE B10K
VR651	41505103	R,VARIABLE B500
VR701	410G1210	R,VARIABLE B3.3K
VR702	410G1210	R,VARIABLE B3.3K
VR703	410G1210	R,VARIABLE B3.3K
VR720	415K5159	R,VARIABLE B20K
VR721	415K5159	R,VARIABLE B20K
VR722	415K5159	R,VARIABLE B20K
VR723	415K5159	R,VARIABLE B20K
VR724	415K5159	R,VARIABLE B20K
VR725	415K5159	R,VARIABLE B20K
VR8A1	410G1207	R,VARIABLE B1.0K
VR801	410G1415	R,VARIABLE B22K-T
VR802	410G1415	R,VARIABLE B22K-T
VR860	410G1213	R,VARIABLE B10K
VR861	410G1211	R,VARIABLE B4.7K
VR901	41085014	R,VARIABLE B200K
VR951	41085009	R,VARIABLE B10K

SYMBOL	PARTS NO	DESCRIPTION
VR952	41085014	R,VARIABLE B200K
***	RELAYS & SWITCHES	***
	65360029	SWITCH,PUSH BUTTON
RL590	65660004	RELAY G6C-1114P-US
RL591	65660004	RELAY G6C-1114P-US
RL601	65660019	RELAY G5P-1(24V)
SW101	653F0031	SWITCH,PUSH BUTTON
SW102	653F0031	SWITCH,PUSH BUTTON
SW103	653F0031	SWITCH,PUSH BUTTON
SW104	653F0031	SWITCH,PUSH BUTTON
SW105	653F0031	SWITCH,PUSH BUTTON
SW106	653F0031	SWITCH,PUSH BUTTON
SW107	653F0031	SWITCH,PUSH BUTTON
SW108	653F0031	SWITCH,PUSH BUTTON
SW109	653F0031	SWITCH,PUSH BUTTON
SW110	653F0031	SWITCH,PUSH BUTTON
SW111	65161048	SWITCH,SLIDE
SW112	65161059	SWITCH,SLIDE 1-6L-3NS
SW401	65161048	SWITCH,SLIDE
SW701	65161062	SWITCH,SLIDE 2-6L-2NS
***	COILS & FILTERS	***
	61062178	POWER LINE FILTER
DEG	61317101	COIL,DEGAUSSING
FL601	61062171	LINE FILTER (4.3A 2.7MH)
LC701	616K6801	NOISE FILTER 2R2-101-T
LC702	616K6801	NOISE FILTER 2R2-101-T
LC703	616K6801	NOISE FILTER 2R2-101-T
LC704	616K6801	NOISE FILTER 2R2-101-T
LC705	616K6965	NOISE FILTER TX09500NBT
LC706	616K6965	NOISE FILTER TX09500NBT
LC707	616K6965	NOISE FILTER TX09500NBT
LC708	616K6964	NOISE FILTER TX07250NBT
LC709	616K6964	NOISE FILTER TX07250NBT
LC710	616K6964	NOISE FILTER TX07250NBT
LC711	616K6946	NOISE FILTER TH28123MA
LC712	616K6946	NOISE FILTER TH28123MA
LC713	616K6946	NOISE FILTER TH28123MA

SYMBOL	PARTS NO	DESCRIPTION
LC714	616K6946	NOISE FILTER TH28123MA
LC715	616K6946	NOISE FILTER TH28123MA
LC901	616K6028	NOISE FILTER 1h223X-TA
LC902	616K6946	NOISE FILTER TH28123MA
⚠ L5E1	61064006	COIL,FILTER 50UH
L5G0	61064006	COIL,FILTER 50UH
L5G2	61064006	COIL,FILTER 50UH
⚠ L5M0	61064006	COIL,FILTER 50UH
L5S1	610E1717	COIL,FILTER 10UH
⚠ L590	60919122	COIL,H.LIN. N-60 (10T)
⚠ L591	60919121	COIL,H.LIN. N-59 (16T)
⚠ L592	60919121	COIL,H.LIN. N-59 (16T)
⚠ L593	61099019	COIL,CHOKE 10MH
⚠ L594	610701J5	FILTER CHOKE 4MH
L601	61072349	COIL,FILTER
L602	610F5002	FERRITE BEADS (B-02-RT)
L651	61099036	FILTER CHOKE
L652	61099014	COIL,CHOKE 33UH
L653	61099013	COIL,CHOKE 10UH
L704	61099011	COIL,CHOKE 33UH
L710	610E1726	COIL,FILTER 56UH
L711	610E1726	COIL,FILTER 56UH
L712	610E1726	COIL,FILTER 56UH
L720	610F6014	COIL,FILTER 5.6UH
L721	610F6014	COIL,FILTER 5.6UH
L722	610F6014	COIL,FILTER 5.6UH
L8A1	61064006	COIL,FILTER 50UH
L8A2	61064006	COIL,FILTER 50UH
L8A3	61099047	FILTER CHOKE
L8A5	61055001	COIL,FILTER 8500UH
L901	610F7619	COIL,FILTER 0.15UH
L902	610F7619	COIL,FILTER 0.15UH
L903	610F7619	COIL,FILTER 0.15UH
MC801	39013042	C,CERAMIC 25V 0.01UF
MC802	39013042	C,CERAMIC 25V 0.01UF
MC803	39013042	C,CERAMIC 25V 0.01UF
MC804	39013042	C,CERAMIC 25V 0.01UF
MR801	390C9804	R,NETWORK
MR802	390C0151	R,NETWORK 8*10K 5% 1/8W
MR803	390C9805	R,NETWORK 4*1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
MR804	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR805	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR806	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR807	390C9805	R,NETWORK 4*1.0K 5% 1/6W
***	PWB ASSYS	***
⚠	84N64A01	SW.REG PWB ASSY
	84N65C01	VIDEO PWB ASSY
	84N65D01	DEF PWB ASSY
	84N65J01	CRT PWB ASSY
	84N65M01	CPU PWB ASSY
	84N65S01	SDP PWB ASSY
	84N65T01	TR PWB ASSY
***	ELECTRICAL PARTS & MISCELLANEOUS PARTS	***
	70032054	SG/CRT SOCKET(DBF)
	70051321	RECEPTACLE 1P
	70810757	LINE CORD 3P L=1.8
	71205037	HOLDER,FUSE
	73893105	CABLE,SIGNAL D15P-MD15P
	74004891	CAP
	75692941	FG-ACC-P
	75692951	FG-ACC-M
CN-01	70056399	D-SUB SOCKET 15PV
CN-02	70056398	MINI D-SUB COCKET 15PV
F601	66653052	FUSE MF51NM125V6.3A-UC
F651	66653017	FUSE 125V 4A-UC
HS1	31709204	SHEET,HEAT SINK
HS2	31709105	SHEET,HEAT SINK
HS3	3170961?	SHEET INSULATOR M-45
HS5A4	31709614	SHEET,INSULATOR M-45
HS581	31709507	SHEET,INSULATOR HEAT SINK
HS582	31709503	SHEET,INSULATOR
SG901	329J0047	ARRESTER (300V),AT52
SG902	329J0047	ARRESTER (300V),AT52
SG903	329J0047	ARRESTER (300V),AT52
SG904	329J0047	ARRESTER (300V),AT52
SG905	65736002	SPARK GAP 1.5KV
SG951	567K7001	SPARK GAP 1.2KV
X801	54098031	X'TAL 12000KHZ

SYMBOL	PARTS NO	DESCRIPTION
***	APPEARANCE PARTS	***
	25282981	SCREW REVET
	25283511	JOINT
	25313911	CABINET FRONT ASSY
	25313931	CABINET BACK(A)ASSY
	25313951	CABINET BACK (B) ASSY
	25313971	CABINET BOTTOM
	25419341	HOOK (B)
	25419371	ESCUTCHEON
	25419381	REVOLVING STAND ASSY
	25419401	REVOLVING SPINDLE
	25420251	LID,CONTROL ASSY
	25534631	COIL SPRING
	25807291	SLIDE SHEET
	25757643	LABEL(REV.)
	25775051	NAME PLATE,INSTRUCTION(720)
	25775061	NAME PLATE,INSTRUCTION(720N)
	25775071	NAME PLATE,INSTRUCTION(720NKI)
	25775711	NAME PLATE,INSTRUCTION(720NXI)
	25777461	NAME PLATE,INSTRUCTION(720NK)
	25775701	LABEL (CONTROL)
***	KNOBS & PUSH BUTTONS	***
	25454691	KNOB,SLIDE
	25454741	PUSH BUTTON (SW)
	25454751	KNOB,CONTROL
***	PRINTED & PACKING MATERIALS	***
	24813191	BAG,POLYETHYLENE(150*370)
	24814531	BAG,POLYEHYLENE (180*350)
	25815061	BAG,POLYETHYLENE (270X370
	25822831	SHEET PROTECTION
	25823551	FILLER (T) CARTON
	25823561	FILLER (B) CARTON
	25825071	CARTON BOX (JC-1741UMA)
	25825101	CARTON BOX(B)
	75034298	MONITOR QUESTIONNAIRE
	75034401	MONITOR SALES OFFICE LIST
	76126001	USER'S MANUAL (5FG/6FG)A
	75652201	TEMPLATE A

SYMBOL	PARTS NO	DESCRIPTION
*** RESISTORS ***		
R110	401K5655	R,CARBON 180H 5% 1/6W
R111	401K5673	R,CARBON 1.0K 5% 1/6W
R120	401K5693	R,CARBON 6.8K 5% 1/6W
R121	401K5669	R,CARBON 680H 5% 1/6W
R122	404C1663	R,METAL 2.7K 1% 1/6W
R123	404C1691	R,METAL 5.6K 1% 1/6W
R124	401C5667	R,CARBON 560H 5% 1/4W
⚠R200A	401K5711	R,CARBON 39K 5% 1/6W
⚠R200C	401K5711	R,CARBON 39K 5% 1/6W
⚠R200F	401K5715	R,CARBON 56K 5% 1/6W
⚠R2001	404C1721	R,METAL 100K 1% 1/6W
⚠R2005	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R2007	401K5697	R,CARBON 10K 5% 1/6W
⚠R2008	401K5721	R,CARBON 100K 5% 1/6W
⚠R2009	401K5713	R,CARBON 47K 5% 1/6W
⚠R200D	401K5753	R,CARBON 2.2M 5% 1/6W
⚠R200E	401K5711	R,CARBON 39K 5% 1/6W
⚠R200F	401K5721	R,CARBON 100K 5% 1/6W
⚠R200G	401K5685	R,CARBON 3.3K 5% 1/6W
⚠R200H	401K5693	R,CARBON 6.8K 5% 1/6W
⚠R200K	401K5697	R,CARBON 10K 5% 1/6W
⚠R200L	401K5705	R,CARBON 22K 5% 1/6W
⚠R200M	401K5689	R,CARBON 4.7K 5% 1/6W
⚠R2010	401K5697	R,CARBON 10K 5% 1/6W
⚠R2011	401K5649	R,CARBON 100H 5% 1/6W
⚠R2012	401K5709	R,CARBON 33K 5% 1/6W
⚠R2013	401K5699	R,CARBON 12K 5% 1/6W
⚠R2018	404C1677	R,METAL 1.5K 1% 1/6W
⚠R2019	404C1697	R,METAL 10K 1% 1/6W
⚠R2020	401K5697	R,CARBON 10K 5% 1/6W
⚠R210C	401K5753	R,CARBON 2.2M 5% 1/6W
R2101	401K5709	R,CARBON 33K 5% 1/6W
R2102	401K5659	R,CARBON 270H 5% 1/6W
R2104	401K5701	R,CARBON 15K 5% 1/6W
R401	401K5689	R,CARBON 4.7K 5% 1/6W
R402	401K5699	R,CARBON 12K 5% 1/6W
R403	404C1694	R,METAL 7.5K 1% 1/6W
R404	401K5705	R,CARBON 22K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R405	403F1165	R,METAL 470H 5% 1W
R406	401C6609	R,CARBON 2.2H 5% 1/4W
R407	401K5681	R,CARBON 2.2K 5% 1/6W
R408	401K5649	R,CARBON 100H 5% 1/6W
R409	401K5673	R,CARBON 1.0K 5% 1/6W
R410	403F2101	R,METAL 1.0H 5% 2W
R411	401K5685	R,CARBON 3.3K 5% 1/6W
R420	401K5699	R,CARBON 12K 5% 1/6W
R421	401K5701	R,CARBON 15K 5% 1/6W
R422	401K5711	R,CARBON 39K 5% 1/6W
R423	401K5709	R,CARBON 33K 5% 1/6W
R424	401K5707	R,CARBON 27K 5% 1/6W
R425	404C1711	R,METAL 39K 1% 1/6W
R426	404C1717	R,METAL 68K 1% 1/6W
R427	404C1731	R,METAL 270K 1% 1/6W
R428	404C1725	R,METAL 150K 1% 1/6W
R429	404C1713	R,METAL 47K 1% 1/6W
R430	404C1721	R,METAL 100K 1% 1/6W
R431	401K5721	R,CARBON 100K 5% 1/6W
R433	401K5721	R,CARBON 100K 5% 1/6W
R434	401K5721	R,CARBON 100K 5% 1/6W
R435	401K5721	R,CARBON 100K 5% 1/6W
R436	401K5715	R,CARBON 56K 5% 1/6W
R437	401K5715	R,CARBON 56K 5% 1/6W
R438	401K5735	R,CARBON 390K 5% 1/6W
R439	404C1745	R,METAL 1.0M 1% 1/6W
R440	401K5753	R,CARBON 2.2M 5% 1/6W
R441	404C1739	R,METAL 560K 1% 1/6W
R442	404C1721	R,METAL 100K 1% 1/6W
R443	401K5713	R,CARBON 47K 5% 1/6W
R444	404C1743	R,METAL 820K 1% 1/6W
R445	401K5705	R,CARBON 22K 5% 1/6W
R446	404C1723	R,METAL 120K 1% 1/6W
R447	404C1707	R,METAL 27K 1% 1/6W
R450	401K5717	R,CARBON 68K 5% 1/6W
R451	401K5707	R,CARBON 27K 5% 1/6W
R452	401K5721	R,CARBON 100K 5% 1/6W
R453	401K5721	R,CARBON 100K 5% 1/6W
R454	401K5673	R,CARBON 1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R455	401K5673	R,CARBON 1.0K 5% 1/6W
R456	403F3141	R,METAL OXIDE 47H 5% 3W
R457	403F3141	R,METAL OXIDE 47H 5% 3W
R461	404K5117	R,METAL 4.7H 5% 1/4W
R462	401K5689	R,CARBON 4.7K 5% 1/6W
R463	401K5687	R,CARBON 3.9K 5% 1/6W
R464	401K5697	R,CARBON 10K 5% 1/6W
R465	401K5691	R,CARBON 5.6K 5% 1/6W
R466	401K5681	R,CARBON 2.2K 5% 1/6W
R471	404C1713	R,METAL 47K 1% 1/6W
R472	404C1699	R,METAL 12K 1% 1/6W
R473	404C1719	R,METAL 82K 1% 1/6W
R474	401K5677	R,CARBON 1.5K 5% 1/6W
R475	401K5697	R,CARBON 10K 5% 1/6W
R476	403F2169	R,METAL OXIDE 680H 5% 2W
R477	403F2169	R,METAL OXIDE 680H 5% 2W
⚠R481	404K5125	R,METAL 10H 5% 1/4W
R482	401K5711	R,CARBON 39K 5% 1/6W
R483	401K5715	R,CARBON 56K 5% 1/6W
R484	401K5723	R,CARBON 120K 5% 1/6W
⚠R491	401G6173	R,CARBON 1.0K 5% 1/4W
R492	401K5749	R,CARBON 1.5M 5% 1/6W
⚠R5AA	401C6745	R,CARBON 1.0M 5% 1/4W
⚠R5AC	401C6745	R,CARBON 1.0M 5% 1/4W
R5A0	401K5683	R,CARBON 2.7K 5% 1/6W
R5A1	403F1177	R,METAL OXIDE 1.5K 5% 1W
R5A2	404C1685	R,METAL 3.3K 1% 1/6W
R5A3	401K5713	R,CARBON 47K 5% 1/6W
R5A4	401K5683	R,CARBON 2.7K 5% 1/6W
R5A5	401K5683	R,CARBON 2.7K 5% 1/6W
R5A6	403F1173	R,METAL OXIED 1.0K 5% 1W
R5A7	401K5677	R,CARBON 1.5K 5% 1/6W
R5A8	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5A9	401G8137	R,CARBON 33H 5% 1/2W
⚠R5C1	401T5125	R,CARBON 10H 5% 1/4W
⚠R5C2	401T5125	R,CARBON 10H 5% 1/4W
⚠R5C3	404K5109	R,METAL 2.2H 5% 1/4W
R5C4	401K5709	R,CARBON 33K 5% 1/6W
⚠R5D1	404K5109	R,METAL 2.2H 5% 1/4W

SYMBOL	PARTS NO	DESCRIPTION
R5D2	401K5691	R,CARBON 5.6K 5% 1/6W
R5D3	401K5677	R,CARBON 1.5K 5% 1/6W
⚠R5D4	401G6191	R,CARBON 5.6K 5% 1/4W
R5D5	401K5709	R,CARBON 33K 5% 1/6W
⚠R5D6	403F3173	R,METAL OXIDE 1.0K 5% 3W
R5D7	403T0994	R,METAL 2.2K 5% 5W
⚠R5EA	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E0	401K5683	R,CARBON 2.7K 5% 1/6W
⚠R5E1	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R5E2	401K5699	R,CARBON 12K 5% 1/6W
⚠R5E3	403F1173	R,METAL OXIED 1.0K 5% 1W
⚠R5E4	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E5	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E7	401J9820	RD16Z,0H,AT52
⚠R5E8	401C6691	R,CARBON 5.6K 5% 1/4W
⚠R5E9	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R5F0	404K5141	R,METAL 47H 5% 1/4W
R5F2	404K5125	R,METAL 10H 5% 1/4W
R5F3	404C1721	R,METAL 100K 1% 1/6W
R5F4	404C1703	R,METAL 18K 1% 1/6W
R5F8	404C1721	R,METAL 100K 1% 1/6W
⚠R5F9	404K5109	R,METAL 2.2H 5% 1/4W
R5GA	401G6127	R,CARBON 12H 5% 1/4W
R5G1	401K5693	R,CARBON 6.8K 5% 1/6W
R5G2	401K5697	R,CARBON 10K 5% 1/6W
R5G3	401K5737	R,CARBON 470K 5% 1/6W
R5G4	401K5699	R,CARBON 12K 5% 1/6W
R5G5	401K5693	R,CARBON 6.8K 5% 1/6W
R5G6	401T5101	R,CARBON 1H 5% 1/4W
R5G7	401K5721	R,CARBON 100K 5% 1/6W
R5G8	401K5729	R,CARBON 220K 5% 1/6W
R5G9	401K5745	R,CARBON 1.0M 5% 1/6W
R5H0	401K5701	R,CARBON 15K 5% 1/6W
R5H1	401K5689	R,CARBON 4.7K 5% 1/6W
R5H2	401K5713	R,CARBON 47K 5% 1/6W
R5H3	401K5713	R,CARBON 47K 5% 1/6W
R5H4	401K5695	R,CARBON 8.2K 5% 1/6W
R5H5	401K5705	R,CARBON 22K 5% 1/6W
R5H7	401K5719	R,CARBON 82K 5% 1/6W
R5H8	401K5709	R,CARBON 33K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R5K3	401K5723	R,CARBON 120K 5% 1/6W
R5K5	401K5687	R,CARBON 3.9K 5% 1/6W
R5K6	401K5633	R,CARBON 22H 5% 1/6W
R5K7	401K5693	R,CARBON 6.8K 5% 1/6W
R5M0	401K5693	R,CARBON 6.8K 5% 1/6W
⚠R5M1	401J5127	R,CARBON 12H 5% 1/4W
R5M2	401K5705	R,CARBON 22K 5% 1/6W
R5M3	401K5723	R,CARBON 120K 5% 1/6W
R5M5	401K5745	R,CARBON 1.0M 5% 1/6W
R5M6	401K5709	R,CARBON 33K 5% 1/6W
R5M7	401K5715	R,CARBON 56K 5% 1/6W
R5M8	401K5697	R,CARBON 10K 5% 1/6W
R5N0	401K5687	R,CARBON 3.9K 5% 1/6W
R5N1	401K5693	R,CARBON 6.8K 5% 1/6W
R5N2	401K5641	R,CARBON 47H 5% 1/6W
⚠R5N3	408A0109	R,FUSE 2.2H 5% 1/2W
⚠R5N4	401G6185	R,CARBON 3.3K 5% 1/4W
⚠R5N5	401H5741	R,CARBON 680K 5% 1/2W
R5N7	401K5733	R,CARBON 330K 5% 1/6W
R5N9	404C1725	R,METAL 150K 1% 1/6W
R5R0	401K5699	R,CARBON 12K 5% 1/6W
R5R4	401K5689	R,CARBON 4.7K 5% 1/6W
R5R5	401K5679	R,CARBON 1.8K 5% 1/6W
R5R6	401C6669	R,CARBON 680H 5% 1/4W
R5R7	401K5699	R,CARBON 12K 5% 1/6W
⚠R5R8	404D5125	R,METAL 10H 5% 1/4W
R5S0	404C1713	R,METAL 47K 1% 1/6W
R5S1	404C1721	R,METAL 100K 1% 1/6W
R5S2	404C1721	R,METAL 100K 1% 1/6W
R5S3	401K5697	R,CARBON 10K 5% 1/6W
R5S4	401K5697	R,CARBON 10K 5% 1/6W
R5S5	404C1703	R,METAL 18K 1% 1/6W
R5S6	401K5725	R,CARBON 150K 5% 1/6W
R5S7	401K5721	R,CARBON 100K 5% 1/6W
R5S8	401K5713	R,CARBON 47K 5% 1/6W
R5S9	401K5721	R,CARBON 100K 5% 1/6W
R5T0	401K5713	R,CARBON 47K 5% 1/6W
R5T1	401K5697	R,CARBON 10K 5% 1/6W
R5T2	401K5697	R,CARBON 10K 5% 1/6W
R5T3	401K5707	R,CARBON 27K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R50G	404C1703	R,METAL 18K 1% 1/6W
R50H	401K5727	R,CARBON 180K 5% 1/6W
R50K	401K5687	R,CARBON 3.9K 5% 1/6W
R50L	401K5727	R,CARBON 180K 5% 1/6W
R50M	401K5697	R,CARBON 10K 5% 1/6W
R50T	401K5707	R,CARBON 27K 5% 1/6W
R501	401K5757	R,CARBON 3.3M 5% 1/6W
⚠R502	401K5717	R,CARBON 68K 5% 1/6W
⚠R503	401K5709	R,CARBON 33K 5% 1/6W
R504	401K5697	R,CARBON 10K 5% 1/6W
R505	401K5697	R,CARBON 10K 5% 1/6W
R506	404C1729	R,METAL 220K 1% 1/6W
⚠R507	404C1721	R,METAL 100K 1% 1/6W
R508	404C1727	R,METAL 180K 1% 1/6W
R509	401K5709	R,CARBON 33K 5% 1/6W
R51A	404C1707	R,METAL 27K 1% 1/6W
R51C	401K5601	R,CARBON 1H 5% 1/6W
R51E	404C1721	R,METAL 100K 1% 1/6W
R51F	404C1689	R,METAL 4.7K 1% 1/6W
R51G	404C1705	R,METAL 22K 1% 1/6W
R51H	401K5735	R,CARBON 390K 5% 1/6W
R51K	401K5687	R,CARBON 3.9K 5% 1/6W
R51O	404C1717	R,METAL 68K 1% 1/6W
R511	401K5675	R,CARBON 1.2K 5% 1/6W
R512	401K5699	R,CARBON 12K 5% 1/6W
R513	401K5659	R,CARBON 270H 5% 1/6W
R514	401K5693	R,CARBON 6.8K 5% 1/6W
R515	401K5697	R,CARBON 10K 5% 1/6W
R516	401K5673	R,CARBON 1.0K 5% 1/6W
R519	403F2171	R,METAL 820H 5% 2W
R52A	404C1711	R,METAL 39K 1% 1/6W
R52C	404C1695	R,METAL 8.2K 1% 1/6W
R52E	404C1721	R,METAL 100K 1% 1/6W
R52F	401K5685	R,CARBON 3.3K 5% 1/6W
R52G	404C1709	R,METAL 33K 1% 1/6W
R52H	401K5737	R,CARBON 470K 5% 1/6W
R52K	401K5687	R,CARBON 3.9K 5% 1/6W
R52T	401K5707	R,CARBON 27K 5% 1/6W
R520	401K5691	R,CARBON 5.6K 5% 1/6W
R521	403F3163	R,METAL OXIDE 390H 5% 3W

SYMBOL	PARTS NO	DESCRIPTION
R5T4	401K5697	R,CARBON 10K 5% 1/6W
R5T6	401K5693	R,CARBON 6.8K 5% 1/6W
R5T7	401K5705	R,CARBON 22K 5% 1/6W
R5T8	401K5719	R,CARBON 82K 5% 1/6W
R5U0	401K5697	R,CARBON 10K 5% 1/6W
R5U1	401K5721	R,CARBON 100K 5% 1/6W
R5U2	401K5697	R,CARBON 10K 5% 1/6W
R5U3	401K5697	R,CARBON 10K 5% 1/6W
R5U4	404C1710	R,METAL 36K 1% 1/6W
R5U5	404C1710	R,METAL 36K 1% 1/6W
R5U6	401K5707	R,CARBON 27K 5% 1/6W
R5U7	401K5683	R,CARBON 2.7K 5% 1/6W
R5U8	401K5721	R,CARBON 100K 5% 1/6W
R5U9	401K5705	R,CARBON 22K 5% 1/6W
R5W0	401K5729	R,CARBON 220K 5% 1/6W
R5W2	401K5721	R,CARBON 100K 5% 1/6W
R5W3	401K5721	R,CARBON 100K 5% 1/6W
R5W4	401K5673	R,CARBON 1.0K 5% 1/6W
R5W5	401K5673	R,CARBON 1.0K 5% 1/6W
R5W9	401K5705	R,CARBON 22K 5% 1/6W
R5X0	404C1697	R,METAL 10K 1% 1/6W
R5X1	401K5697	R,CARBON 10K 5% 1/6W
R5X2	404C1715	R,METAL 56K 1% 1/6W
R5X3	404C1715	R,METAL 56K 1% 1/6W
R5X4	401K5697	R,CARBON 10K 5% 1/6W
R5X5	401K5721	R,CARBON 100K 5% 1/6W
R5X6	401K5685	R,CARBON 3.3K 5% 1/6W
R5X7	401K5703	R,CARBON 18K 5% 1/6W
R5X8	404C1727	R,METAL 180K 1% 1/6W
R5X9	404C1721	R,METAL 100K 1% 1/6W
R5Y1	404C1721	R,METAL 100K 1% 1/6W
R5Y2	404C1721	R,METAL 100K 1% 1/6W
R5Y3	401K5697	R,CARBON 10K 5% 1/6W
R5Y4	401K5691	R,CARBON 5.6K 5% 1/6W
R5Y5	401K5717	R,CARBON 68K 5% 1/6W
R5Y6	401K5707	R,CARBON 27K 5% 1/6W
R50A	404C1697	R,METAL 10K 1% 1/6W
R50C	404C1675	R,METAL 1.2K 1% 1/6W
R50E	404C1721	R,METAL 100K 1% 1/6W
R50F	401K5601	R,CARBON 1H 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R522	401K5705	R,CARBON 22K 5% 1/6W
R523	401K5699	R,CARBON 12K 5% 1/6W
R524	401J9820	RD16Z,0H,AT52
R526	401K5697	R,CARBON 10K 5% 1/6W
R527	401K5697	R,CARBON 10K 5% 1/6W
R528	401K5677	R,CARBON 1.5K 5% 1/6W
R529	401K5697	R,CARBON 10K 5% 1/6W
R53A	404C1721	R,METAL 100K 1% 1/6W
R53C	404C1699	R,METAL 12K 1% 1/6W
R53E	404C1721	R,METAL 100K 1% 1/6W
R53F	404C1705	R,METAL 22K 1% 1/6W
R53G	404C1711	R,METAL 39K 1% 1/6W
R53H	401K5743	R,CARBON 820K 5% 1/6W
R53K	401K5687	R,CARBON 3.9K 5% 1/6W
R53L	401K5673	R,CARBON 1.0K 5% 1/6W
R53S	401K5697	R,CARBON 10K 5% 1/6W
R53T	401K5707	R,CARBON 27K 5% 1/6W
R531	401K5709	R,CARBON 33K 5% 1/6W
R532	401K5709	R,CARBON 33K 5% 1/6W
R533	401K5689	R,CARBON 4.7K 5% 1/6W
R534	401K5709	R,CARBON 33K 5% 1/6W
R535	401K5673	R,CARBON 1.0K 5% 1/6W
R536	404C1703	R,METAL 18K 1% 1/6W
R537	404C1683	R,METAL 2.7K 1% 1/6W
R538	404C1705	R,METAL 22K 1% 1/6W
R54A	404C1725	R,METAL 150K 1% 1/6W
R54C	404C1707	R,METAL 27K 1% 1/6W
R54E	404C1721	R,METAL 100K 1% 1/6W
R54F	401K5601	R,CARBON 1H 5% 1/6W
R54G	404C1721	R,METAL 100K 1% 1/6W
R54H	401K5745	R,CARBON 1.0M 5% 1/6W
R54K	401K5687	R,CARBON 3.9K 5% 1/6W
R54T	401K5707	R,CARBON 27K 5% 1/6W
R544	401K5697	R,CARBON 10K 5% 1/6W
R55A	404C1729	R,METAL 220K 1% 1/6W
R55C	404C1709	R,METAL 33K 1% 1/6W
R55E	404C1721	R,METAL 100K 1% 1/6W
R55F	404C1711	R,METAL 39K 1% 1/6W
R55G	404C1723	R,METAL 120K 1% 1/6W
R55H	401K5747	R,CARBON 1.2M 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R55K	401K5687	R,CARBON 3.9K 5% 1/6W
R55T	401K5707	R,CARBON 27K 5% 1/6W
R55A	401K5723	R,CARBON 120K 5% 1/6W
R55C	401K5721	R,CARBON 100K 5% 1/6W
R56E	401K5725	R,CARBON 150K 5% 1/6W
R56F	401K5723	R,CARBON 120K 5% 1/6W
R56G	401K5715	R,CARBON 56K 5% 1/6W
R56H	401K5715	R,CARBON 56K 5% 1/6W
R56K	404C1721	R,METAL 100K 1% 1/6W
R56L	404C1715	R,METAL 56K 1% 1/6W
R56M	401K5661	R,CARBON 330H 5% 1/6W
R56R	404C1697	R,METAL 10K 1% 1/6W
R56S	401K5657	R,CARBON 220H 5% 1/6W
R56T	401K5719	R,CARBON 82K 5% 1/6W
R56W	401K5731	R,CARBON 270K 5% 1/6W
R56X	401K5601	R,CARBON 1H 5% 1/6W
R568	401K5709	R,CARBON 33K 5% 1/6W
R569	401K5697	R,CARBON 10K 5% 1/6W
R57A	404C1717	R,METAL 68K 1% 1/6W
R57E	401K5649	R,CARBON 100H 5% 1/6W
⚠R57F	404K5141	R,METAL 47H 5% 1/4W
⚠R57G	409A6149	R,FUSE 100H 5% 1/4W
⚠R57H	404K5109	R,METAL 2.2H 5% 1/4W
R57K	401K5681	R,CARBON 2.2K 5% 1/6W
⚠R57L	404K5141	R,METAL 47H 5% 1/4W
⚠R57T	403F1137	R,METAL 33H 5% 1W
⚠R57V	403F3177	R,METAL OXIDE 1.5K 5% 3W
⚠R570	404K5109	R,METAL 2.2H 5% 1/4W
R571	404C1729	R,METAL 220K 1% 1/6W
R572	404C1715	R,METAL 56K 1% 1/6W
R573	404C1705	R,METAL 22K 1% 1/6W
R574	404C1723	R,METAL 120K 1% 1/6W
R575	404C1729	R,METAL 220K 1% 1/6W
R576	404C1703	R,METAL 18K 1% 1/6W
R577	404C1705	R,METAL 22K 1% 1/6W
R578	401C6677	R,CARBON 1.5K 5% 1/4W
R579	404C1703	R,METAL 18K 1% 1/6W
R58A	404C1689	R,METAL 4.7K 1% 1/6W
R58C	401K5661	R,CARBON 330H 5% 1/6W
R58E	404C1721	R,METAL 100K 1% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R611	401J5145	R,CARBON 68H 5% 1/4W
R612	401J5125	R,CARBON 10H 5% 1/4W
R613	401K5705	R,CARBON 22K 5% 1/6W
R614	401K5701	R,CARBON 15K 5% 1/6W
R615	401K5657	R,CARBON 220H 5% 1/6W
R616	403J3209	R,METAL 33K 5% 3W
R617	403J3209	R,METAL 33K 5% 3W
R619	401H5667	R,CARBON 560H 5% 1/2W
R620	401K5721	R,CARBON 100K 5% 1/6W
R651	403J3135	R,METAL 27H 5% 3W
R652	401K5697	R,CARBON 10K 5% 1/6W
R653	404C1689	R,METAL 4.7K 1% 1/6W
R654	403J3135	R,METAL 27H 5% 3W
R655	401H5705	R,CARBON 22K 5% 1/2W
R656	403J2135	R,METAL 27H 5% 2W
R657	401K5677	R,CARBON 1.5K 5% 1/6W
R658	401K5677	R,CARBON 1.5K 5% 1/6W
R659	401K5675	R,CARBON 1.2K 5% 1/6W
R660	401K5705	R,CARBON 22K 5% 1/6W
R661	404C1683	R,METAL 2.7K 1% 1/6W
R662	401K5649	R,CARBON 100H 5% 1/6W
R663	401K5689	R,CARBON 4.7K 5% 1/6W
R664	403J2213	R,METAL 47K 5% 2W
R665	403J2197	R,METAL 10K 5% 2W
R666	403J2175	R,METAL 1.2K 5% 2W
R667	401C6665	R,CARBON 470H 5% 1/4W
R668	401C6657	R,CARBON 220H 5% 1/4W
R669	401K5713	R,CARBON 47K 5% 1/6W
R670	401K5701	R,CARBON 15K 5% 1/6W
R671	401K5717	R,CARBON 68K 5% 1/6W
R672	401K5669	R,CARBON 680H 5% 1/6W
R674	401K5573	R,CARBON 1.0K 5% 1/6W
R7A0	401K5649	R,CARBON 100H 5% 1/6W
R7A1	401K5649	R,CARBON 100H 5% 1/6W
R7A2	401K5649	R,CARBON 100H 5% 1/6W
R7A3	401K5663	R,CARBON 390H 5% 1/6W
R7A4	401K5687	R,CARBON 3.9K 5% 1/6W
R7A5	401K5663	R,CARBON 390H 5% 1/6W
R7A6	401K5687	R,CARBON 3.9K 5% 1/6W
R7A7	401K5663	R,CARBON 390H 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R58F	404C1681	R,METAL 2.2K 1% 1/6W
R58G	404C1699	R,METAL 12K 1% 1/6W
R58H	401K5721	R,CARBON 100K 5% 1/6W
R58K	401K5687	R,CARBON 3.9K 5% 1/6W
R58T	401K5707	R,CARBON 27K 5% 1/6W
R591	402980004	R,WIRE 1.0H 1% 5W
R592	402980004	R,WIRE 1.0H 1% 5W
R593	401C6651	R,CARBON 120H 5% 1/4W
R594	401C6651	R,CARBON 120H 5% 1/4W
R59A	401K5649	R,CARBON 100H 5% 1/6W
R59C	401K5649	R,CARBON 100H 5% 1/6W
R59E	401K5649	R,CARBON 100H 5% 1/6W
R59F	401K5649	R,CARBON 100H 5% 1/6W
R59G	401K5649	R,CARBON 100H 5% 1/6W
R59L	401K5685	R,CARBON 3.3K 5% 1/6W
R59M	401K5719	R,CARBON 82K 5% 1/6W
R59N	401K5699	R,CARBON 12K 5% 1/6W
R59S	401K5685	R,CARBON 3.3K 5% 1/6W
R59T	401K5685	R,CARBON 3.3K 5% 1/6W
R59W	401K5649	R,CARBON 100H 5% 1/6W
R590	401K5685	R,CARBON 3.3K 5% 1/6W
⚠R591	404K5117	R,METAL 4.7H 5% 1/4W
⚠R592	408A8157	R,FUSE 220H 5% 1/2W
⚠R593	408A8157	R,FUSE 220H 5% 1/2W
⚠R594	408A8157	R,FUSE 220H 5% 1/2W
R595	401K5685	R,CARBON 3.3K 5% 1/6W
R596	401K5667	R,CARBON 560H 5% 1/6W
R597	401K5685	R,CARBON 3.3K 5% 1/6W
R598	401K5667	R,CARBON 560H 5% 1/6W
R599	403F3141	R,METAL OXIDE 47H 5% 3W
R601	401H5729	R,CARBON 220K 5% 1/2W
R602	402991104	R,WIRE 10H 5% 5W
R603	401H5737	R,CARBON 470K 5% 1/2W
R604	403J2151	R,METAL 120H 5% 2W
R605	401K5673	R,CARBON 1.0K 5% 1/6W
R606	403J2213	R,METAL 47K 5% 2W
R607	403J2191	R,METAL 5.6K 5% 2W
R608	403J2329	R,METAL 0.22H 5% 2W
R609	403J2329	R,METAL 0.22H 5% 2W
R610	403J3149	R,METAL 100H 5% 3W

SYMBOL	PARTS NO	DESCRIPTION
R7A8	401K5687	R,CARBON 3.9K 5% 1/6W
R7C0	401K5639	R,CARBON 39H 5% 1/6W
R7C1	401K5639	R,CARBON 39H 5% 1/6W
R7C2	401K5639	R,CARBON 39H 5% 1/6W
R7C3	401K5713	R,CARBON 47K 5% 1/6W
R7C4	401K5691	R,CARBON 5.6K 5% 1/6W
R7C5	401K5713	R,CARBON 47K 5% 1/6W
R7C6	401K5691	R,CARBON 5.6K 5% 1/6W
R7C7	401K5713	R,CARBON 47K 5% 1/6W
R7C8	401K5691	R,CARBON 5.6K 5% 1/6W
R7D0	401K5729	R,CARBON 220K 5% 1/6W
R7D1	401K5729	R,CARBON 220K 5% 1/6W
R7D2	401K5729	R,CARBON 220K 5% 1/6W
R7D3	401K5725	R,CARBON 150K 5% 1/6W
R7D4	401K5725	R,CARBON 150K 5% 1/6W
R7D5	401K5725	R,CARBON 150K 5% 1/6W
R7D6	401K5719	R,CARBON 82K 5% 1/6W
R7D7	401K5719	R,CARBON 82K 5% 1/6W
R7D8	401K5719	R,CARBON 82K 5% 1/6W
R7D9	401K5709	R,CARBON 33K 5% 1/6W
R7E0	401K5709	R,CARBON 33K 5% 1/6W
R7E1	401K5709	R,CARBON 33K 5% 1/6W
R7E2	401K5695	R,CARBON 8.2K 5% 1/6W
R7E3	401K5695	R,CARBON 8.2K 5% 1/6W
R7E4	401K5695	R,CARBON 8.2K 5% 1/6W
R7E5	401K5697	R,CARBON 10K 5% 1/6W
R7E6	401K5697	R,CARBON 10K 5% 1/6W
R7E7	401K5697	R,CARBON 10K 5% 1/6W
R7E0	401K5697	R,CARBON 10K 5% 1/6W
R7F1	401K5697	R,CARBON 10K 5% 1/6W
R7F2	401K5697	R,CARBON 10K 5% 1/6W
R7F3	401K5697	R,CARBON 10K 5% 1/6W
R7F4	401J9820	RD16Z,OH,AT52
R7F5	401J9820	RD16Z,OH,AT52
R7F6	401K5733	R,CARBON 330K 5% 1/6W
R7F7	401K5733	R,CARBON 330K 5% 1/6W
R7F8	401K5733	R,CARBON 330K 5% 1/6W
R7G0	401K5661	R,CARBON 330H 5% 1/6W
R7G1	401K5649	R,CARBON 100H 5% 1/6W
R7G2	401K5681	R,CARBON 2.2K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R7G3	401K5681	R,CARBON 2.2K 5% 1/6W
R7G4	401K5687	R,CARBON 3.9K 5% 1/6W
R7G5	403F2151	R,METAL OXIDE 120H 5% 2W
R701	404C1646	R,METAL 75H 1% 1/6W
R702	404C1646	R,METAL 75H 1% 1/6W
R703	404C1646	R,METAL 75H 1% 1/6W
R704	404C1646	R,METAL 75H 1% 1/6W
R705	404C1646	R,METAL 75H 1% 1/6W
R706	404C1646	R,METAL 75H 1% 1/6W
R707	401K5685	R,CARBON 3.3K 5% 1/6W
R708	401K5697	R,CARBON 10K 5% 1/6W
R709	401K5685	R,CARBON 3.3K 5% 1/6W
R710	401K5697	R,CARBON 10K 5% 1/6W
R711	401K5685	R,CARBON 3.3K 5% 1/6W
R712	401K5697	R,CARBON 10K 5% 1/6W
R713	401K5685	R,CARBON 3.3K 5% 1/6W
R714	401K5697	R,CARBON 10K 5% 1/6W
R715	401K5685	R,CARBON 3.3K 5% 1/6W
R716	401K5697	R,CARBON 10K 5% 1/6W
R717	401K5685	R,CARBON 3.3K 5% 1/6W
R718	401K5697	R,CARBON 10K 5% 1/6W
R719	401K5653	R,CARBON 150H 5% 1/6W
R720	401K5653	R,CARBON 150H 5% 1/6W
R721	401K5653	R,CARBON 150H 5% 1/6W
R722	401K5653	R,CARBON 150H 5% 1/6W
R723	401K5653	R,CARBON 150H 5% 1/6W
R724	401K5653	R,CARBON 150H 5% 1/6W
R725	401H5661	R,CARBON 330H 5% 1/2W
R726	401H5661	R,CARBON 330H 5% 1/2W
R727	401H5661	R,CARBON 330H 5% 1/2W
R729	404C1697	R,METAL 10K 1% 1/6W
R730	401K5705	R,CARBON 22K 5% 1/6W
R731	401K5681	R,CARBON 2.2K 5% 1/6W
R732	401K5681	R,CARBON 2.2K 5% 1/6W
R734	401K5705	R,CARBON 22K 5% 1/6W
R735	401K5681	R,CARBON 2.2K 5% 1/6W
R736	401K5681	R,CARBON 2.2K 5% 1/6W
R737	401K5681	R,CARBON 2.2K 5% 1/6W
R738	401K5673	R,CARBON 1.0K 5% 1/6W
R739	401K5681	R,CARBON 2.2K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R741	401K5699	R,CARBON 12K 5% 1/6W
R742	401K5697	R,CARBON 10K 5% 1/6W
R743	401K5699	R,CARBON 12K 5% 1/6W
R744	401K5697	R,CARBON 10K 5% 1/6W
R745	401K5693	R,CARBON 6.8K 5% 1/6W
R750	401K5649	R,CARBON 100H 5% 1/6W
R751	401K5649	R,CARBON 100H 5% 1/6W
R752	401K5649	R,CARBON 100H 5% 1/6W
R756	401K5669	R,CARBON 680H 5% 1/6W
R757	401K5669	R,CARBON 680H 5% 1/6W
R758	401K5669	R,CARBON 680H 5% 1/6W
R760	401K5653	R,CARBON 150H 5% 1/6W
R761	401K5653	R,CARBON 150H 5% 1/6W
R762	401K5653	R,CARBON 150H 5% 1/6W
R763	401K5689	R,CARBON 4.7K 5% 1/6W
R764	401K5697	R,CARBON 10K 5% 1/6W
R765	401K5697	R,CARBON 10K 5% 1/6W
R766	401K5697	R,CARBON 10K 5% 1/6W
R767	401K5697	R,CARBON 10K 5% 1/6W
R768	401K5697	R,CARBON 10K 5% 1/6W
R769	401K5697	R,CARBON 10K 5% 1/6W
R772	401K5697	R,CARBON 10K 5% 1/6W
R773	401K5697	R,CARBON 10K 5% 1/6W
R774	401K5697	R,CARBON 10K 5% 1/6W
R775	401K5671	R,CARBON 820H 5% 1/6W
R776	401K5685	R,CARBON 3.3K 5% 1/6W
R777	401K5671	R,CARBON 820H 5% 1/6W
R778	401K5685	R,CARBON 3.3K 5% 1/6W
R779	401K5671	R,CARBON 820H 5% 1/6W
R780	401K5685	R,CARBON 3.3K 5% 1/6W
R781	401K5665	R,CARBON 470H 5% 1/6W
R782	401K5665	R,CARBON 470H 5% 1/6W
R783	401K5665	R,CARBON 470H 5% 1/6W
R784	401K5655	R,CARBON 180H 5% 1/6W
R785	401K5655	R,CARBON 180H 5% 1/6W
R786	401K5655	R,CARBON 180H 5% 1/6W
R787	401K5673	R,CARBON 1.0K 5% 1/6W
R788	401K5673	R,CARBON 1.0K 5% 1/6W
R789	401K5673	R,CARBON 1.0K 5% 1/6W
R790	401H5657	R,CARBON 220H 5% 1/2W

SYMBOL	PARTS NO	DESCRIPTION
R791	401H5657	R,CARBON 220H 5% 1/2W
R792	401H5657	R,CARBON 220H 5% 1/2W
R793	401K5679	R,CARBON 1.8K 5% 1/6W
R795	404C1653	R,METAL 150H 1% 1/6W
R796	404C1653	R,METAL 150H 1% 1/6W
R797	404C1653	R,METAL 150H 1% 1/6W
R8A1	401H5683	R,CARBON 2.7K 5% 1/2W
R8A2	401K5697	R,CARBON 10K 5% 1/6W
R8A3	401K5697	R,CARBON 10K 5% 1/6W
R8A4	401H5681	R,CARBON 2.2K 5% 1/2W
R8A5	401K5701	R,CARBON 15K 5% 1/6W
R8A6	401K5701	R,CARBON 15K 5% 1/6W
R8A7	401K5727	R,CARBON 180K 5% 1/6W
R8A8	401K5705	R,CARBON 22K 5% 1/6W
R8A9	401K5695	R,CARBON 8.2K 5% 1/6W
R8C0	401K5697	R,CARBON 10K 5% 1/6W
R8C1	401K5681	R,CARBON 2.2K 5% 1/6W
R8C2	401K5681	R,CARBON 2.2K 5% 1/6W
R8C3	401K5705	R,CARBON 22K 5% 1/6W
R8C4	401C5761	R,CARBON 4.7M 5% 1/4W
R8C5	401K5743	R,CARBON 820K 5% 1/6W
R8C6	401K5665	R,CARBON 470H 5% 1/6W
R8C7	401K5697	R,CARBON 10K 5% 1/6W
R8C8	401K5745	R,CARBON 1.0M 5% 1/6W
R8D0	401K5643	R,CARBON 56H 5% 1/6W
R8E0	401K5687	R,CARBON 3.9K 5% 1/6W
R8E1	401K5691	R,CARBON 5.6K 5% 1/6W
R8E2	404C1697	R,METAL 10K 1% 1/6W
R8E3	404C1697	R,METAL 10K 1% 1/6W
R8E4	403F2151	R,METAL OXIDE 120H 5% 2W
R8E5	403F2151	R,METAL OXIDE 120H 5% 2W
R8E6	401K5669	R,CARBON 680H 5% 1/6W
R8E7	401K5655	R,CARBON 180H 5% 1/6W
R8E8	40399049	R,METAL 82H 5% 3W
R8F0	403F2103	R,METAL OXIDE 1.2H 5% 2W
R8F1	403F3137	R,METAL OXIDE 33H 5% 3W
R8F2	401K5715	R,CARBON 56K 5% 1/6W
R8F3	403F2109	R,METAL 2.2H 5% 2W
R8F4	401K5657	R,CARBON 220H 5% 1/6W
R8F5	403F2117	R,METAL OXIDE 4.7H 5% 2W

SYMBOL	PARTS NO	DESCRIPTION
R8F6	403F1125	R,METAL OXIDE 10H 5% 1W
R8F7	403F1135	R,METAL OXIDE 27H 5% 1W
R8F8	401K5697	R,CARBON 10K 5% 1/6W
R8F9	401J9320	RD15Z,0H,AT52
R8G0	401K5691	R,CARBON 5.6K 5% 1/6W
R8G1	401K5729	R,CARBON 220K 5% 1/6W
R8G2	401K5691	R,CARBON 5.6K 5% 1/6W
R8G3	401K5729	R,CARBON 220K 5% 1/6W
R8G4	401K5685	R,CARBON 3.3K 5% 1/6W
R8G5	401K5685	R,CARBON 3.3K 5% 1/6W
R8G6	401K5685	R,CARBON 3.3K 5% 1/6W
R8G7	401K5685	R,CARBON 3.3K 5% 1/6W
R8G8	401K5685	R,CARBON 3.3K 5% 1/6W
R8G9	401K5677	R,CARBON 1.5K 5% 1/6W
R8H0	401K5669	R,CARBON 680H 5% 1/6W
R8H1	401K5685	R,CARBON 3.3K 5% 1/6W
R8H2	401K5677	R,CARBON 1.5K 5% 1/6W
R8H3	401K5721	R,CARBON 100K 5% 1/6W
R8H4	401K5693	R,CARBON 6.8K 5% 1/6W
R8H5	401K5687	R,CARBON 3.9K 5% 1/6W
R8H6	401K5675	R,CARBON 1.2K 5% 1/6W
R8H7	401K5683	R,CARBON 2.7K 5% 1/6W
R8H8	401K5675	R,CARBON 1.2K 5% 1/6W
R8H9	401K5685	R,CARBON 3.3K 5% 1/6W
R8K0	401K5691	R,CARBON 5.6K 5% 1/6W
R8K1	401K5691	R,CARBON 5.6K 5% 1/6W
R8K2	401K5691	R,CARBON 5.6K 5% 1/6W
R8K3	401K5701	R,CARBON 15K 5% 1/6W
R8K4	401K5689	R,CARBON 4.7K 5% 1/6W
R8K5	401K5689	R,CARBON 4.7K 5% 1/6W
R8K6	401K5705	R,CARBON 22K 5% 1/6W
R8K7	401K5729	R,CARBON 220K 5% 1/6W
R8K8	401K5673	R,CARBON 1.0K 5% 1/6W
R8K9	401K5673	R,CARBON 1.0K 5% 1/6W
R8L0	401K5685	R,CARBON 3.3K 5% 1/6W
R8L1	401K5685	R,CARBON 3.3K 5% 1/6W
R8L3	401K5667	R,CARBON 560H 5% 1/6W
R8Q1	401K5683	R,CARBON 2.7K 5% 1/6W
R8Q2	401K5659	R,CARBON 270H 5% 1/6W
R803	401K5693	R,CARBON 6.8K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R805	401K5697	R,CARBON 10K 5% 1/6W
R806	401K5713	R,CARBON 47K 5% 1/6W
R807	401K5697	R,CARBON 10K 5% 1/6W
R808	401K5697	R,CARBON 10K 5% 1/6W
R809	401K5697	R,CARBON 10K 5% 1/6W
R810	401K5673	R,CARBON 1.0K 5% 1/6W
R811	401K5673	R,CARBON 1.0K 5% 1/6W
R816	401K5681	R,CARBON 2.2K 5% 1/6W
R817	401K5701	R,CARBON 15K 5% 1/6W
R818	401K5693	R,CARBON 6.8K 5% 1/6W
R832	401K5673	R,CARBON 1.0K 5% 1/6W
R834	401C3665	R,CARBON 470H 5% 1/4W
R835	401K5719	R,CARBON 82K 5% 1/6W
R836	401K5731	R,CARBON 270K 5% 1/6W
R837	401K5711	R,CARBON 39K 5% 1/6W
R838	404C1721	R,METAL 100K 1% 1/6W
R839	404C1724	R,METAL 130K 1% 1/6W
R840	404C1697	R,METAL 10K 1% 1/6W
R841	404C1721	R,METAL 100K 1% 1/6W
R842	404C1724	R,METAL 130K 1% 1/6W
R843	404C1697	R,METAL 10K 1% 1/6W
R844	404C1721	R,METAL 100K 1% 1/6W
R845	404C1724	R,METAL 130K 1% 1/6W
R846	404C1697	R,METAL 10K 1% 1/6W
R847	404C1721	R,METAL 100K 1% 1/6W
R848	404C1724	R,METAL 130K 1% 1/6W
R849	404C1697	R,METAL 10K 1% 1/6W
R850	401K5697	R,CARBON 10K 5% 1/6W
R851	401K5697	R,CARBON 10K 5% 1/6W
R852	401K5697	R,CARBON 10K 5% 1/6W
R853	401K5709	R,CARBON 33K 5% 1/6W
R854	401K5709	R,CARBON 33K 5% 1/6W
R855	401K5709	R,CARBON 33K 5% 1/6W
R856	401K5709	R,CARBON 33K 5% 1/6W
R857	401K5673	R,CARBON 1.0K 5% 1/6W
R858	401K5673	R,CARBON 1.0K 5% 1/6W
R859	401K5673	R,CARBON 1.0K 5% 1/6W
R86A	401K5673	R,CARBON 1.0K 5% 1/6W
R86C	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R860	404K5125	R,METAL 10H 5% 1/4W

SYMBOL	PARTS NO	DESCRIPTION
R861	403F3159	R,METAL OXIDE 270H 5% 3W
R862	401K5695	R,CARBON 8.2K 5% 1/6W
R863	401K5685	R,CARBON 3.3K 5% 1/6W
R864	401K5695	R,CARBON 8.2K 5% 1/6W
R865	401J9820	RD16Z,0H,AT52
R866	401K5689	R,CARBON 4.7K 5% 1/6W
R867	401K5697	R,CARBON 10K 5% 1/6W
R868	401K5697	R,CARBON 10K 5% 1/6W
R869	401K5695	R,CARBON 8.2K 5% 1/6W
R870	401K5683	R,CARBON 2.7K 5% 1/6W
R871	401K5673	R,CARBON 1.0K 5% 1/6W
R872	401K5685	R,CARBON 3.3K 5% 1/6W
R873	401K5673	R,CARBON 1.0K 5% 1/6W
R874	401K5697	R,CARBON 10K 5% 1/6W
R876	401K5683	R,CARBON 2.7K 5% 1/6W
R877	401K5673	R,CARBON 1.0K 5% 1/6W
R878	401K5673	R,CARBON 1.0K 5% 1/6W
R879	401K5673	R,CARBON 1.0K 5% 1/6W
R880	401K5673	R,CARBON 1.0K 5% 1/6W
R882	401K5673	R,CARBON 1.0K 5% 1/6W
R883	403F2149	R,METAL OXIDE 100H 5% 2W
R884	401K5697	R,CARBON 10K 5% 1/6W
R885	401K5709	R,CARBON 33K 5% 1/6W
R886	401K5699	R,CARBON 12K 5% 1/6W
R904	401H5645	R,CARBON 68H 5% 1/2W
R905	401H5645	R,CARBON 68H 5% 1/2W
R906	401H5645	R,CARBON 68H 5% 1/2W
R907	401K5697	R,CARBON 10K 5% 1/6W
R908	401K5749	R,CARBON 1.5M 5% 1/6W
R909	401K5633	R,CARBON 22H 5% 1/6W
R910	401K5649	R,CARBON 100H 5% 1/6W
R911	401C6689	R,CARBON 4.7K 5% 1/4W
R912	401K5737	R,CARBON 470K 5% 1/6W
R913	401K5697	R,CARBON 10K 5% 1/6W
R914	401K5713	R,CARBON 47K 5% 1/6W
R951	401K5697	R,CARBON 10K 5% 1/6W
R952	401K5697	R,CARBON 10K 5% 1/6W
R953	401K5723	R,CARBON 120K 5% 1/6W
R954	401K5713	R,CARBON 47K 5% 1/6W
R955	401K5709	R,CARBON 33K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R956	401K5673	R,CARBON 1.0K 5% 1/6W
R957	401K5673	R,CARBON 1.0K 5% 1/6W
R958	401K5715	R,CARBON 56K 5% 1/6W
R959	401K5737	R,CARBON 470K 5% 1/6W
R960	401K5715	R,CARBON 56K 5% 1/6W
R961	401K5721	R,CARBON 100K 5% 1/6W
R962	401K5709	R,CARBON 33K 5% 1/6W
R964	401K5699	R,CARBON 12K 5% 1/6W
R965	401K5685	R,CARBON 3.3K 5% 1/6W
R966	401K5649	R,CARBON 100H 5% 1/6W
R967	403F3209	R,METAL OXIDE 33K 5% 3W
R968	403F3209	R,METAL OXIDE 33K 5% 3W
R970	401K5647	R,CARBON 82H 5% 1/6W
R971	401K5679	R,CARBON 1.8K 5% 1/6W
R974	401H5731	R,CARBON 270K 5% 1/2W
R975	401H5731	R,CARBON 270K 5% 1/2W
R976	401K5705	R,CARBON 22K 5% 1/6W
R978	401K5705	R,CARBON 22K 5% 1/6W
R979	401K5697	R,CARBON 10K 5% 1/6W
R980	401K5713	R,CARBON 47K 5% 1/6W
R981	401K5707	R,CARBON 27K 5% 1/6W
R982	401K5697	R,CARBON 10K 5% 1/6W
R983	401K5681	R,CARBON 2.2K 5% 1/6W
R984	401K5697	R,CARBON 10K 5% 1/6W
R985	401H5577	R,CARBON 1.5K 5% 1/2W
R986	401K5721	R,CARBON 100K 5% 1/6W
R987	401K5697	R,CARBON 10K 5% 1/6W
R989	401K5707	R,CARBON 27K 5% 1/6W

*** CAPACITORS ***

C200P	421D6013	C,CERAMIC 50V 0.1UF
⚠C2002	430B6041	C,ELEC 25V 47UF
⚠C2004	430B5029	C,ELEC 16V 100UF
⚠C2006	430B6029	C,ELEC 16V 100UF
⚠C2008	430B6066	C,ELEC 50V 22UF
C2021	421D6013	C,CERAMIC 50V 0.1UF
C2101	430B9066	C,ELEC 50V 22UF
C401	421C0213	C,CERAMIC 50V 1000PF
C402	428B3021	C,METAL FILM 50V 0.47UF
C405	430B9071	C,ELEC 50V 330UF

SYMBOL	PARTS NO	DESCRIPTION
C406	421D6013	C,CERAMIC 50V 0.1UF
C407	430B9070	C,ELEC 50V 220UF
C408	430B9061	C,ELEC 50V 1.0UF
C409	428D4317	C,METAL FILM 100V 0.22UF
C410	4303D183	C,ELEC 50V 1000UF
C411	430B9054	C,ELEC 35V 100UF
C412	427F4011	C,FILM 50V 6800PF
C441	428B3013	C,METAL FILM 50V 0.1UF
C442	428B3013	C,METAL FILM 50V 0.1UF
C451	421A0425	C,CERAMIC 50V 0.01UF
C461	430B6054	C,ELEC 35V 100UF
C462	430B6065	C,ELEC 50V 10UF
C47P	421D6013	C,CERAMIC 50V 0.1UF
C471	421D6013	C,CERAMIC 50V 0.1UF
C472	430B6041	C,ELEC 25V 47UF
C481	420C9563	C,CERAMIC 500V 1000PF
C482	430B6536	C,ELEC 200V 10UF
C491	430C9154	C,ELEC 350V 3.3UF
C5A1	430B6041	C,ELEC 25V 47UF
C5A2	427J9112	C,FILM 50V 1000PF
C5A3	427J9112	C,FILM 50V 1000PF
C5A4	430B9041	C,ELEC 25V 47UF
C5A5	421D6013	C,CERAMIC 50V 0.1UF
⚠C5A6	42817102	C,METAL FILM 2.0KV 1900PF
⚠C5A8	428JJ115	C,METAL 1000V 0.047UF
C5A9	4303J222	C,ELEC 250V 2.2UF
C5C0	430B6066	C,ELEC 50V 22UF
⚠C5D1	427D3455	C,FILM 630V 2200PF
⚠C5D2	427F4059	C,FILM 50V 4700PF
⚠C5D3	428B3021	C,METAL FILM 50V 0.47UF
C5EA	427F4013	C,FILM 50V 0.01UF
C5EC	433A7013	C,ELEC 16V 47UF
C5EP	421D6013	C,CERAMIC 50V 0.1UF
⚠C5E0	430B6065	C,ELEC 50V 10UF
⚠C5E2	423A2037	C,CERAMIC 50V 47PF
⚠C5E3	430B9065	C,ELEC 50V 10UF
⚠C5E4	430B9066	C,ELEC 50V 22UF
⚠C5E5	4309H106	C,ELEC 250V 22UF
⚠C5E6	427F4013	C,FILM 50V 0.01UF

SYMBOL	PARTS NO	DESCRIPTION
⚠C5E7	43089039	C,ELEC 25V 22UF
⚠C5E8	428CJ022	C,METAL FILM 250V 0.1UF
⚠C5E9	43086068	C,ELEC 50V 47UF
⚠C5F1	43086516	C,ELEC 16CV 10UF
⚠C5GA	43038180	C,ELEC 50V 22UF
C5GC	43086066	C,ELEC 50V 22UF
C5GE	428CJ022	C,METAL FILM 250V 0.1UF
C5GO	423A2033	C,CERAMIC 50V 33PF
C5G1	421C0225	C,CERAMIC 50V 0.01UF
C5G2	427F4601	C,FILM 50V 1000PF
C5G3	423A1057	C,CERAMIC 50V 330PF
C5G4	43089066	C,ELEC 50V 22UF
C5G5	423A1101	C,CERAMIC 50V 470PF
C5G6	427F4021	C,FILM 50V 0.047UF
C5G7	43089552	C,ELEC 250V 1 UF
C5G8	420C9563	C,CERAMIC 500V 1000PF
C5G9	43086039	C,ELEC 25V 22UF
C5H0	43086064	C,ELEC 50V 4.7UF
C5H1	43086064	C,ELEC 50V 4.7UF
C5H2	43086065	C,ELEC 50V 10UF
C5H6	4303J224	C,ELEC 250V 4.7UF
C5H7	427F4621	C,FILM 50V 0.047UF
C5H8	427F4621	C,FILM 50V 0.047UF
C5H9	4309H105	C,ELEC 200V 4.7UF
⚠C5MC	433A4025	C,ELEC 16V 47UF
C5M0	423A1101	C,CERAMIC 50V 470PF
C5M1	43089066	C,ELEC 50V 22UF
C5M2	427F4025	C,FILM 50V 0.1UF
C5M4	427F4621	C,FILM 50V 0.047UF
C5M5	423A2103	C,CERAMIC 50V 180PF
C5M6	4303J222	C,ELEC 250V 2.2UF
C5M7	43086061	C,ELEC 50V 1.0UF
C5M8	427F4621	C,FILM 50V 0.047UF
C5M9	4303J222	C,ELEC 250V 2.2UF
C5R1	421C0205	C,CERAMIC 50V 220PF
C5S1	421D6009	C,CERAMIC 25V 0.1UF
C5S2	43086063	C,ELEC 50V 3.3UF
C5S3	433A3033	C,ELEC 25V 10UF
C5S4	43086041	C,ELEC 25V 47UF

SYMBOL	PARTS NO	DESCRIPTION
C530	421A0425	C,CERAMIC 50V 0.01UF
C549	423A2045	C,CERAMIC 50V 100PF
C56A	421D6013	C,CERAMIC 50V 0.1UF
C56C	421D6013	C,CERAMIC 50V 0.1UF
C57A	421A0425	C,CERAMIC 50V 0.01UF
C57C	43086041	C,ELEC 25V 47UF
C57P	421D6013	C,CERAMIC 50V 0.1UF
C571	43086069	C,ELEC 50V 100UF
C572	43086066	C,ELEC 50V 22UF
C574	420C9567	C,CERAMIC 500V 2200PF
⚠C577	42703575	C,FILM 200V 0.1UF
C578	427F4651	C,FILM 50V 1000PF
⚠C581	42817101	C,METAL 1600V 1500PF
⚠C582	42817201	C,METAL 1600V 5200PF
⚠C583	43198002	C,ELEC 200V 47UF
⚠C59A	42839602	C,METAL 400V 0.12UF
⚠C59C	42839708	C,METAL 400V 0.33UF 5%
C59E	421D6009	C,CERAMIC 25V 0.1UF
C59F	421D6009	C,CERAMIC 25V 0.1UF
C59G	421D6009	C,CERAMIC 25V 0.1UF
C59H	421D6009	C,CERAMIC 25V 0.1UF
C59K	421D6009	C,CERAMIC 25V 0.1UF
⚠C59L	430B9552	C,ELEC 250V 1 UF
C59M	421D6009	C,CERAMIC 25V 0.1UF
C59N	427F4613	C,FILM 50V 0.01UF
C590	43086096	C,ELEC 100V 3.3UF
⚠C591	420C9563	C,CERAMIC 500V 1000PF
⚠C592	420C9563	C,CERAMIC 500V 1000PF
⚠C593	420C9563	C,CERAMIC 500V 1000PF
⚠C595	42839631	C,METAL FILM 400V 0.6UF
⚠C596	42839631	C,METAL FILM 400V 0.6UF
⚠C597	42839615	C,METAL 400V 0.68UF 5%
⚠C598	42839606	C,METAL 400V 0.24UF
⚠C599	42839601	C,METAL 400V 0.1UF
C601	42898001	C,FILM AC250V 0.22UF
C602	42899098	C,FILM 250V 0.1UF
C603	42053013	C,CERAMIC 400V 1000PF
C604	42053013	C,CERAMIC 400V 1000PF
C605	43198001	C,ELEC 200V 1200UF

SYMBOL	PARTS NO	DESCRIPTION
C5S5	43086041	C,ELEC 25V 47UF
C5S6	43086030	C,ELEC 16V 220UF
C5S7	43086030	C,ELEC 16V 220UF
C5S8	421D6009	C,CERAMIC 25V 0.1UF
C5S9	421D6009	C,CERAMIC 25V 0.1UF
C5T0	421D6009	C,CERAMIC 25V 0.1UF
C5T1	421D6009	C,CERAMIC 25V 0.1UF
C5T2	421D6009	C,CERAMIC 25V 0.1UF
C5X0	421D6009	C,CERAMIC 25V 0.1UF
C5X1	421J9036	C,CERAMIC 25V 0.1UF
C5X2	43086041	C,ELEC 25V 47UF
C5X3	43086064	C,ELEC 50V 4.7UF
C50A	421D6013	C,CERAMIC 50V 0.1UF
C50C	428B3025	C,METAL FILM 50V 1.0UF
C50R	421D6013	C,CERAMIC 50V 0.1UF
C50S	421D6013	C,CERAMIC 50V 0.1UF
C500	427F4013	C,FILM 50V 0.01UF
C501	430B6064	C,ELEC 50V 4.7UF
C502	423A2103	C,CERAMIC 50V 180PF
C503	4308S017	C,ELEC 10V 220UF
C504	421D6009	C,CERAMIC 25V 0.1UF
C506	423A2033	C,CERAMIC 50V 33PF
C507	421D6013	C,CERAMIC 50V 0.1UF
C508	430B6030	C,ELEC 16V 220UF
C509	423A1045	C,CERAMIC 50V 100PF
C51C	421D6013	C,CERAMIC 50V 0.1UF
C51P	421D6013	C,CERAMIC 50V 0.1UF
C510	423A2103	C,CERAMIC 50V 180PF
C511	423A2105	C,CERAMIC 50V 270PF
C512	427F4651	C,FILM 50V 1000PF
C513	427F4603	C,FILM 50V 1500PF
C514	435A8307	C,TANTALUM 35V 1.0UF
C515	427A7005	C,FILM 100V 0.0022UF
C516	427F4014	C,FILM 50V 0.012UF
C517	43086061	C,ELEC 50V 1.0UF
C518	421A0425	C,CERAMIC 50V 0.01UF
C520	427F4610	C,FILM 50V 560CPF
C521	421A0425	C,CERAMIC 50V 0.01UF
C529	423A2045	C,CERAMIC 50V 100PF

SYMBOL	PARTS NO	DESCRIPTION
C606	428B3013	C,METAL FILM 50V 0.1UF
C607	42099096	C,CERAMIC 2KV 470PF
C609	420EC067	C,CERAMIC 400V 2200PF
C610	42839022	C,METAL FILM 250V 0.1UF
C611	42099088	C,CERAMIC 2KV 220PF
C612	43089065	C,ELEC 50V 10UF
C613	42863101	C,METAL FILM 50V 0.010UF
C614	42099096	C,CERAMIC 2KV 470PF
C615	43089065	C,ELEC 50V 10UF
C616	423A1100	C,CERAMIC 50V 390PF
C618	42099088	C,CERAMIC 2KV 220PF
C619	42899098	C,FILM 250V 0.1UF
C651	42099095	C,CERAMIC 2KV 330PF
C652	4302J105	C,ELEC 100V 470UF
C653	4302J559	C,ELEC 250V 47UF
C654	42809001	C,METAL FILM 100V 0.01UF
C655	42099095	C,CERAMIC 2KV 330PF
C656	4304A013	C,ELEC 160V 100UF
C657	4304A013	C,ELEC 160V 100UF
C658	42099086	C,CERAMIC 2KV 1000PF
C659	4302J059	C,ELEC 35V 2200UF
C660	43089057	C,ELEC 35V 470UF
C661	427F4624	C,FILM 50V 0.082UF
C662	42863013	C,METAL FILM 50V 0.1UF
C663	4302J059	C,ELEC 35V 2200UF
C664	42799057	C,FILM 100V 3300PF
C665	43089053	C,ELEC 35V 47UF
C666	42800053	C,METAL 100V 0.1UF
C667	42800053	C,METAL 100V 0.1UF
C669	4304A013	C,ELEC 160V 100UF
C7A0	42800097	C,FILM 250V 0.22UF
C7A1	42800097	C,FILM 250V 0.22UF
C7A2	42800097	C,FILM 250V 0.22UF
C7A3	43089512	C,ELEC 160V 1.0UF
C7A4	43089512	C,ELEC 160V 1.0UF
C7A5	43089512	C,ELEC 160V 1.0UF
C7A6	420C9563	C,CERAMIC 500V 1000PF
C7A7	420C9563	C,CERAMIC 500V 1000PF
C7A8	420C9563	C,CERAMIC 500V 1000PF
C7C0	433A6045	C,ELEC 16V 22UF

SYMBOL	PARTS NO	DESCRIPTION
C7C1	433A6045	C,ELEC 16V 22UF
C7C2	433A6045	C,ELEC 16V 22UF
C7C3	433A6045	C,ELEC 16V 22UF
C7C4	433A6045	C,ELEC 16V 22UF
C7C5	433A6045	C,ELEC 16V 22UF
C7C6	430BJ518	C,ELEC 160V 33UF
C7D1	423A2015	C,CERAMIC 50V 10PF
C7D2	423A2015	C,CERAMIC 50V 10PF
C7D3	423A2015	C,CERAMIC 50V 10PF
C7D4	421C0225	C,CERAMIC 50V 0.01UF
C7D5	421C0225	C,CERAMIC 50V 0.01UF
C7D6	421C0225	C,CERAMIC 50V 0.01UF
C7D7	430B9552	C,ELEC 250V 1 UF
C7E0	430B6065	C,ELEC 50V 10UF
C7E1	430B6065	C,ELEC 50V 10UF
C7E2	430B6065	C,ELEC 50V 10UF
C7E5	421D6009	C,CERAMIC 25V 0.1UF
C7E6	421D6009	C,CERAMIC 25V 0.1UF
C7E7	421D6009	C,CERAMIC 25V 0.1UF
C7E8	421D6009	C,CERAMIC 25V 0.1UF
C7E9	420C9569	C,CERAMIC 50V 3300PF
C7F0	421D6009	C,CERAMIC 25V 0.1UF
C7F1	421D6009	C,CERAMIC 25V 0.1UF
C7F2	421D6009	C,CERAMIC 25V 0.1UF
C7G1	433A6045	C,ELEC 16V 22UF
C7G2	433A6045	C,ELEC 16V 22UF
C7G3	433A6045	C,ELEC 16V 22UF
C7G4	433A6045	C,ELEC 16V 22UF
C7G5	433A6045	C,ELEC 16V 22UF
C7G6	433A6045	C,ELEC 16V 22UF
C7G7	421C0225	C,CERAMIC 50V 0.01UF
C7G8	421C0225	C,CERAMIC 50V 0.01UF
C7G9	421C0225	C,CERAMIC 50V 0.01UF
C7H0	421C0225	C,CERAMIC 50V 0.01UF
C7I1	421C0225	C,CERAMIC 50V 0.01UF
C7I2	421C0225	C,CERAMIC 50V 0.01UF
C7I3	430B8144	C,ELEC 16V 47UF
C7I4	421D6009	C,CERAMIC 25V 0.1UF
C7I5	430B8144	C,ELEC 16V 47UF
C7I6	421D6009	C,CERAMIC 25V 0.1UF

SYMBOL	PARTS NO	DESCRIPTION
C768	421C0225	C,CERAMIC 50V 0.01UF
C769	421C0225	C,CERAMIC 50V 0.01UF
C770	421C0225	C,CERAMIC 50V 0.01UF
C771	430B3104	C,ELEC 50V 3.3UF
C772	430B3104	C,ELEC 50V 3.3UF
C773	430B3104	C,ELEC 50V 3.3UF
C774	430C8423	C,ELEC 16V 470UF
C775	430C8423	C,ELEC 16V 470UF
C776	430C8423	C,ELEC 16V 470UF
C777	421C0213	C,CERAMIC 50V 1000PF
C778	421C0213	C,CERAMIC 50V 1000PF
C779	421C0213	C,CERAMIC 50V 1000PF
C780	430B6041	C,ELEC 25V 47UF
C781	423A2041	C,CERAMIC 50V 68PF
C782	423A2041	C,CERAMIC 50V 68PF
C783	423A2041	C,CERAMIC 50V 68PF
C784	421C0225	C,CERAMIC 50V 0.01UF
C785	421C0225	C,CERAMIC 50V 0.01UF
C786	421C0225	C,CERAMIC 50V 0.01UF
C787	423A2035	C,CERAMIC 50V 39PF
C788	423A2035	C,CERAMIC 50V 39PF
C789	423A2035	C,CERAMIC 50V 39PF
C790	421C0225	C,CERAMIC 50V 0.01UF
C791	421C0225	C,CERAMIC 50V 0.01UF
C792	421C0225	C,CERAMIC 50V 0.01UF
C793	430B9513	C,ELEC 160V 2.2UF
C794	430B9513	C,ELEC 160V 2.2UF
C795	430B9513	C,ELEC 160V 2.2UF
C796	420C9569	C,CERAMIC 50V 3300PF
C797	420C9569	C,CERAMIC 50V 3300PF
C798	420C9569	C,CERAMIC 50V 3300PF
C8A1	423A1028	C,CERAMIC 50V 20PF
C8A2	428B3025	C,METAL FILM 50V 1.0UF
C8A3	43032175	C,ELEC 50V 220UF
C8A4	43032175	C,ELEC 50V 220UF
C8A5	427F4013	C,FILM 50V 0.01UF
C8A6	427F4004	C,FILM 50V 1800PF
C8A7	427F4009	C,FILM 50V 4700PF
C8A8	421D6009	C,CERAMIC 25V 0.1UF
C8A9	421C0213	C,CERAMIC 50V 1000PF

SYMBOL	PARTS NO	DESCRIPTION
C717	423A1045	C,CERAMIC 50V 100PF
C718	421C0225	C,CERAMIC 50V 0.01UF
C719	421C0225	C,CERAMIC 50V 0.01UF
C720	421C0225	C,CERAMIC 50V 0.01UF
C722	430B6041	C,ELEC 25V 47UF
C724	430B6032	C,ELEC 16V 470UF
C725	430B6032	C,ELEC 16V 470UF
C726	430B6032	C,ELEC 16V 470UF
C727	430B6065	C,ELEC 50V 10UF
C728	430B5065	C,ELEC 50V 10UF
C729	430B6065	C,ELEC 50V 10UF
C730	430B6065	C,ELEC 50V 10UF
C731	430B6065	C,ELEC 50V 10UF
C732	430B6065	C,ELEC 50V 10UF
C733	430B6029	C,ELEC 16V 100UF
C734	430B6029	C,ELEC 16V 100UF
C735	430B6029	C,ELEC 16V 100UF
C736	430B6032	C,ELEC 16V 470UF
C737	421C0219	C,CERAMIC 50V 3300PF
C738	421C0219	C,CERAMIC 50V 3300PF
C739	421C0219	C,CERAMIC 50V 3300PF
C741	430B6041	C,ELEC 25V 47UF
C750	430B9032	C,ELEC 16V 470UF
C751	430B9032	C,ELEC 16V 470UF
C752	430B9032	C,ELEC 16V 470UF
C753	421D6009	C,CERAMIC 25V 0.1UF
C754	421D6009	C,CERAMIC 25V 0.1UF
C755	421D6009	C,CERAMIC 25V 0.1UF
C756	430B6065	C,ELEC 50V 10UF
C757	430B6065	C,ELEC 50V 10UF
C758	430B6065	C,ELEC 50V 10UF
C759	421C0225	C,CERAMIC 50V 0.01UF
C760	421C0225	C,CERAMIC 50V 0.01UF
C761	421C0225	C,CERAMIC 50V 0.01UF
C762	421C0213	C,CERAMIC 50V 1000PF
C763	421C0213	C,CERAMIC 50V 1000PF
C764	421C0213	C,CERAMIC 50V 1000PF
C765	430B9026	C,ELEC 16V 22UF
C766	430B9026	C,ELEC 16V 22UF
C767	430B9026	C,ELEC 16V 22UF

SYMBOL	PARTS NO	DESCRIPTION
C8C1	430C2105	C,ELEC 25V 470UF
C8C2	430C2105	C,ELEC 25V 470UF
C8C3	430B9031	C,ELEC 16V 330UF
C8C4	432K6011	C,ELEC 10V 220UF
C8C5	430J8109	C,ELEC 16V 47UF
C8C7	421D6013	C,CERAMIC 50V 0.1UF
C8C8	421D6013	C,CERAMIC 50V 0.1UF
C8C9	430B9017	C,ELEC 10V 220UF
C8D0	427F4605	C,FILM 50V 2200PF
C8D1	428B3025	C,METAL FILM 50V 1.0UF
C3F0	432K6208	C,ELEC 63V 33UF
C8G0	428B3013	C,METAL FILM 50V 0.1UF
C8G1	433A4056	C,ELEC 50V 22UF
C8G2	428B3013	C,METAL FILM 50V 0.1UF
C8G3	433A4056	C,ELEC 50V 22UF
C8G4	430B6065	C,ELEC 50V 10UF
C8G8	430B6064	C,ELEC 50V 4.7UF
C8G9	423A1057	C,CERAMIC 50V 330PF
C8H0	427F4009	C,FILM 50V 4700PF
C8H1	433A4056	C,ELEC 50V 22UF
C8H2	430B5064	C,ELEC 50V 4.7UF
C8H3	430B6221	C,ELEC 50V 0.1UF
C8H4	433A3058	C,ELEC 50V 4.7UF
C8H5	430B6065	C,ELEC 50V 10UF
C8H6	430B5064	C,ELEC 50V 4.7UF
C8H7	421D6009	C,CERAMIC 25V 0.1UF
C8H8	430B6041	C,ELEC 25V 47UF
C8H9	430B5061	C,ELEC 50V 1.0UF
C8K0	423A1057	C,CERAMIC 50V 330PF
C8K1	423A1057	C,CERAMIC 50V 330PF
C8K2	423A1057	C,CERAMIC 50V 330PF
C8K3	421D6009	C,CERAMIC 25V 0.1UF
C8K4	421D6009	C,CERAMIC 25V 0.1UF
C8K5	423A1101	C,CERAMIC 50V 470PF
C8K6	430B5065	C,ELEC 50V 10UF
C8K7	421D6009	C,CERAMIC 25V 0.1UF
C8K8	421D6009	C,CERAMIC 25V 0.1UF
C8K9	421D6009	C,CERAMIC 25V 0.1UF
C8L0	430B6060	C,ELEC 50V 0.47UF
C801	430B6017	C,ELEC 10V 220UF

SYMBOL	PARTS NO	DESCRIPTION
C802	421D6009	C,CERAMIC 25V 0.1UF
C803	430B8152	C,ELEC 25V 10UF
C804	423A2015	C,CERAMIC 50V 10PF
C805	423A2015	C,CERAMIC 50V 10PF
C810	421A0425	C,CERAMIC 50V 0.01UF
C811	421A0425	C,CERAMIC 50V 0.01UF
C820	423A2025	C,CERAMIC 50V 15PF
C826	421D6009	C,CERAMIC 25V 0.1UF
C827	421D6009	C,CERAMIC 25V 0.1UF
C829	421D6009	C,CERAMIC 25V 0.1UF
C830	421D6009	C,CERAMIC 25V 0.1UF
C831	430B9017	C,ELEC 10V 220UF
C832	430C0253	C,ELEC 25V 22UF
C833	430B6135	C,ELEC 10V 220UF
C834	421D6009	C,CERAMIC 25V 0.1UF
C835	421D6009	C,CERAMIC 25V 0.1UF
C836	421C3461	C,CERAMIC 16V 0.01UF
C838	421C3461	C,CERAMIC 16V 0.01UF
C861	430B9025	C,ELEC 16V 10UF
C862	430B9041	C,ELEC 25V 47UF
C863	430B9016	C,ELEC 10V 100UF
C864	421D6009	C,CERAMIC 25V 0.1UF
C865	421D6009	C,CERAMIC 25V 0.1UF
C866	433A7031	C,ELEC 35V 4.7UF
C867	421C0213	C,CERAMIC 50V 1000PF
C868	421D6009	C,CERAMIC 25V 0.1UF
C869	421D6009	C,CERAMIC 25V 0.1UF
C870	421D6009	C,CERAMIC 25V 0.1UF
C871	430B6065	C,ELEC 50V 10UF
C901	4203J575	C,CERAMIC 500V 0.01UF
C903	420C9551	C,CERAMIC 500V 100PF
C904	420C9563	C,CERAMIC 500V 1000PF
C905	42040108	C,CERAMIC 2KV 0.01UF
C907	42B00097	C,FILM 250V 0.22UF
C951	427F4013	C,FILM 50V 0.01UF
C952	430B9028	C,ELEC 16V 47UF
C953	430B9028	C,ELEC 16V 47UF
C955	427F4675	C,FILM 50V 0.1UF
C956	427F4675	C,FILM 50V 0.1UF
C957	427F4013	C,FILM 50V 0.01UF

SYMBOL	PARTS NO	DESCRIPTION
C958	421D6009	C,CERAMIC 25V 0.1UF
C959	423A1103	C,CERAMIC 50V 560PF
C960	42B00501	C,METAL FILM 1.6KV 1000PF
C961	430B9028	C,ELEC 16V 47UF
C962	423A1101	C,CERAMIC 50V 470PF
C963	427F4675	C,FILM 50V 0.1UF
C964	428JJ115	C,METAL 1000V 0.047UF
C965	421D6009	C,CERAMIC 25V 0.1UF
C966	423A2045	C,CERAMIC 50V 100PF
C967	430B9025	C,ELEC 16V 10UF
C968	430B9025	C,ELEC 16V 10UF
C969	430B6029	C,ELEC 16V 100UF

REPLACEMENT PARTS LIST

The components specified Model JC-1741UMA (N)

Note: The components identified by ⚠ make are critical for safety.
Replace only with parts Number specified.

SYMBOL	PARTS NO	DESCRIPTION
***	CRT & TUNER	***
⚠CRT	33017504	CRT M41KMG20XX02(T0)
***	ICS	***
⚠IC2001	37011132	IC UPC4082C (OP-AMP)
⚠IC2002	37011132	IC UPC4082C (OP-AMP)
IC401	37056887	IC TDA1675A
IC402	37011024	IC UPC3403C (OP-AMP)
IC431	37051036	MOS UPD4066BC
IC471	37011206	IC XRA10358 (OP-AMP)
IC5A1	37053390	MOS HD74HC123AP
⚠IC5E1	370A1009	IC UPC1093J-T (REG)
⚠IC5E2	37011262	IC XRA10393 (COMP)
IC5G0	37011262	IC XRA10393 (COMP)
IC5G1	37011024	IC UPC3403C (OP-AMP)
IC5S1	37056618	IC BA6110
IC5S2	37011206	IC XRA10358 (OP-AMP)
IC5S3	37011210	IC XRA10324 (Q OP-AMP)
IC5S4	37011210	IC XRA10324 (Q OP-AMP)
IC5S5	37056877	IC NJM4200D (MULTIPLIER)
⚠IC501	37056295	IC LA7851
IC502	37051179	IC SN74LS123N (MONO MLT)
IC503	37011018	IC UPC311C (COMP)
IC504	37011210	IC XRA10324 (Q OP-AMP)
IC505	37051036	MOS UPD4066BC
IC506	37011206	IC XRA10358 (OP-AMP)
IC509	37011206	IC XRA10358 (OP-AMP)
IC510	37101543	IC XRA10339
IC511	37101543	IC XRA10339
IC571	37056885	IC NJM3404AD
IC601	37056810	IC M67297 (SW.REG CONT)
IC701	37056814	IC M52035P
IC702	37056433	IC M51399P
IC703	37056433	IC M51399P
IC704	37056433	IC M51399P
IC705	37056905	IC VPA12H
IC706	37056905	IC VPA12H
IC707	37056905	IC VPA12H
IC8A1	37056885	IC NJM3404AD

SYMBOL	PARTS NO	DESCRIPTION
Q452	35063411	TR,2SD401A K
Q461	35065416	TR,2SD882 P
Q462	350E3218	TR 2SC1740S-T R
Q471	35065416	TR,2SD882 P
Q481	35056311	TR 2SC2688 K
Q482	35058905	TR,2SC1841 E
Q5A1	350H5018	TR,2SC3811-TA R
Q5A2	35050918	TR 2SC1384 R
Q5A3	350K4412	TR 2SA952 L,AT
⚠Q5A4	35122800	TR 2SK1271
⚠Q5A5	35122800	TR 2SK1271
⚠Q5E0	351G0602	TR DTC144ES-T
⚠Q5E1	35050918	TR 2SC1384 R
⚠Q5E2	350K4411	TR 2SA952 K,AT
⚠Q5E3	35125900	TR 2SK806
⚠Q5E4	351G0553	TR DTA143ES-T
Q5G0	351G0601	TR DTC114ES-T
Q5G1	350K5718	TR 2SA933S-T R
Q5G2	350E3218	TR 2SC1740S-T R
Q5G3	350K5718	TR 2SA933S-T R
Q5G4	350E3218	TR 2SC1740S-T R
Q5G5	350K4518	TR 2SA933-T R
Q5G6	35122500	TR 2SK758
Q5M0	350K5718	TR 2SA933S-T R
Q5M1	350E3218	TR 2SC1740S-T R
Q5M2	350K4518	TR 2SA933-T R
Q5M3	35122500	TR 2SK758
⚠Q5M4	350A1500	TR 2SA1767-TA
Q5R0	351G0601	TR DTC114ES-T
Q5R1	351G0655	TR DTC143ES-TP
Q5R2	350H5018	TR,2SC3811-TA R
Q5R3	350E3218	TR 2SC1740S-T R
Q5R4	350K4518	TR 2SA933-T R
Q5S1	350K5718	TR 2SA933S-T R
Q50A	351G0602	TR DTC144ES-T
Q501	350K4518	TR 2SA933-T R
Q502	350H5018	TR,2SC3811-TA R
Q51A	351G0602	TR DTC144ES-T
Q52A	351G0602	TR DTC144ES-T

SYMBOL	PARTS NO	DESCRIPTION
IC8A2	37011262	IC XRA10393 (COMP)
IC8G0	37011018	IC UPC311C (COMP)
IC8G1	37011262	IC XRA10393 (COMP)
IC8G2	37011018	IC UPC311C (COMP)
IC8G3	37056867	IC M52036SP
IC8G4	37051179	IC SN74LS123N (MONO MLT)
IC8G5	37051096	IC SN74LS367AN (BUFF)
IC801	37056915	IC UPD78C12AGQ-A66-36
IC802	37056813	IC M62359P
IC803	37051042	MOS UPD4028BC (BCD DEC)
IC804	37055401	MOS XRM93C56B-E
IC805	37053036	MOS SN74HC32N (OR)
IC806	37011210	IC XRA10324 (Q OP-AMP)
IC807	37011210	IC XRA10324 (Q OP-AMP)
IC808	37011210	IC XRA10324 (Q OP-AMP)
IC809	37011206	IC XRA10358 (OP-AMP)
IC810	37011206	IC XRA10358 (OP-AMP)
IC811	370E6005	IC PST518A
IC860	37056812	IC M62362P
IC861	37056812	IC M62362P
IC862	37011210	IC XRA10324 (Q OP-AMP)
IC863	37011206	IC XRA10358 (OP-AMP)
IC864	37011210	IC XRA10324 (Q OP-AMP)
IC951	37011206	IC XRA10358 (OP-AMP)
IC952	37056618	IC BA6110
***	TRANSISTORS	***
CR601	35595014	TRIAC AC10DGM
⚠Q2001	350K4518	TR 2SA933-T R
⚠Q2002	350E3218	TR 2SC1740S-T R
⚠Q2005	351G0601	TR DTC114ES-T
⚠Q2006	351G0601	TR DTC114ES-T
Q2101	351G0655	TR DTC143ES-TP
Q421	350E3218	TR 2SC1740S-T R
Q422	351A0690	TR DTC115ES-TP
Q423	351A0690	TR DTC115ES-TP
Q424	351A0690	TR DTC115ES-TP
Q425	351A0690	TR DTC115ES-TP
Q451	35025211	TR 2SB546 K

SYMBOL	PARTS NO	DESCRIPTION
Q53A	351G0602	TR DTC144ES-T
Q54A	351G0602	TR DTC144ES-T
Q55A	351G0602	TR DTC144ES-T
Q56A	351G0560	TR DTA144WS-T
Q56C	351G0560	TR DTA144WS-T
Q56E	350K4518	TR 2SA933-T R
Q571	35025212	TR 2SB546 L
Q572	350E3218	TR 2SC1740S-T R
Q573	350K4518	TR 2SA933-T R
Q574	35122500	TR 2SK758
Q58A	351G0602	TR DTC144ES-T
⚠Q581	35094300	TR 2SC3998
Q59A	351G0560	TR DTA144WS-T
Q59C	351G0602	TR DTC144ES-T
Q59E	351G0560	TR DTA144WS-T
Q59F	351G0602	TR DTC144ES-T
Q591	35125700	TR 2SK947
Q592	35125700	TR 2SK947
Q593	35125700	TR 2SK947
Q594	35125700	TR 2SK947
Q595	35125700	TR 2SK947
Q596	35125700	TR 2SK947
Q601	35125900	TR,2SK1411
Q651	35053012	TR 2SC1941 L
Q652	350E3218	TR 2SC1740S-T R
Q653	350E3218	TR 2SC1740S-T R
Q654	351G0653	TR DTC123ES-T
Q7C0	350H5017	TR,2SC3811-TA Q
Q701	350H1811	TR,2SC2901 K-T
Q702	350H1811	TR,2SC2901 K-T
Q703	350H1811	TR,2SC2901 K-T
Q704	350H1811	TR,2SC2901 K-T
Q705	350H1811	TR,2SC2901 K-T
Q706	350H1811	TR,2SC2901 K-T
Q707	351G0601	TR DTC114ES-T
Q708	351G0500	TR DTA114ES-T
Q709	351G0601	TR DTC114ES-T
Q710	350H1811	TR,2SC2901 K-T
Q711	350K5718	TR 2SA933S-T R
Q712	350K5718	TR 2SA933S-T R

SYMBOL	PARTS NO	DESCRIPTION
Q713	350K5718	TR 2SA933S-T R
Q714	350E3218	TR 2SC1740S-T R
Q715	350E3218	TR 2SC1740S-T R
Q716	350E3218	TR 2SC1740S-T R
Q717	351G0602	TR DTC144ES-T
Q718	351G0602	TR DTC144ES-T
Q719	351G0601	TR DTC114ES-T
Q723	35080200	TR 2SC2407/2407A
Q724	35080200	TR 2SC2407/2407A
Q725	35080200	TR 2SC2407/2407A
Q726	350H1811	TR,2SC2901 K-T
Q727	350H1811	TR,2SC2901 K-T
Q728	350H1811	TR,2SC2901 K-T
Q731	350H1811	TR,2SC2901 K-T
Q732	350K7500	TR 2SA1206-T
Q733	350H1811	TR,2SC2901 K-T
Q734	351G0601	TR DTC114ES-T
Q740	350H4417	TR,2SC1473-TA Q
Q741	350H4417	TR,2SC1473-TA Q
Q742	350H4417	TR,2SC1473-TA Q
Q743	350K5217	TR,2SA1018-TA Q
Q744	350K5217	TR,2SA1018-TA Q
Q745	350K5217	TR,2SA1018-TA Q
Q8A1	35065415	TR,2SD882 P
Q8A2	350E3218	TR 2SC1740S-T R
Q8A3	350K5718	TR 2SA933S-T R
Q8A4	350E3218	TR 2SC1740S-T R
Q8A5	351G0601	TR DTC114ES-T
Q8A6	350E3218	TR 2SC1740S-T R
Q8A7	350K5718	TR 2SA933S-T R
Q8A8	350E3218	TR 2SC1740S-T R
Q8A9	351Z2600	TR 2SK701
Q8C0	35065416	TR,2SD882 P
Q8G0	351G0600	TR DTA114ES-T
Q8G1	351G0600	TR DTA114ES-T
Q8G2	351G0601	TR DTC114ES-T
Q8G3	351G0602	TR DTC144ES-T
Q8G4	351G0601	TR DTC114ES-T
Q801	351G0641	TR DTC114YS-T
Q802	351G0601	TR DTC114ES-T

SYMBOL	PARTS NO	DESCRIPTION
⚠D2006	360K1027	DIODE 1SS132
⚠D2008	360K1027	DIODE 1SS132
D2101	360K1027	DIODE 1SS132
D2102	360K1027	DIODE 1SS132
D2103	360K1027	DIODE 1SS132
D401	360K1027	DIODE 1SS132
D402	369K2136	DIODE RGP10G,AT
D481	369K2136	DIODE RGP10G,AT
D482	360K1032	DIODE 1SS82-TA
D491	360K1032	DIODE 1SS82-TA
D5A0	360K1027	DIODE 1SS132
D5A1	360K1027	DIODE 1SS132
⚠D5A2	361K7312	DIODE EP01C-Y
D5A3	360K1027	DIODE 1SS132
⚠D5D1	36107541	DIODE EG01A
⚠D5E1	360K1027	DIODE 1SS132
⚠D5E2	361K7562	DIODE EGP10G G23
⚠D5E3	36107541	DIODE EG01A
⚠D5E4	361K7562	DIODE EGP10G G23
D5G0	360K1027	DIODE 1SS132
D5G1	360K1027	DIODE 1SS132
D5G2	360K1027	DIODE 1SS132
D5G3	369K2136	DIODE RGP10G,AT
D5G4	360K1027	DIODE 1SS132
D5G5	360K1027	DIODE 1SS132
D5G6	360K1027	DIODE 1SS132
D5G7	36107638	DIODE EGP30G
D5G8	369K2136	DIODE RGP10G,AT
D5M0	360K1027	DIODE 1SS132
D5M2	360K1027	DIODE 1SS132
D5M3	360K1027	DIODE 1SS132
D5M4	360K1027	DIODE 1SS132
D5M5	361K7637	DIODE EGP20G G23
D5R1	360K1027	DIODE 1SS132
D501	360K1027	DIODE 1SS132
D502	360K1027	DIODE 1SS132
⚠D572	361K7562	DIODE EGP10G G23
D573	36107293	DIODE RK14
D574	36107293	DIODE RK14

SYMBOL	PARTS NO	DESCRIPTION
Q8C3	351G0601	TR DTC114ES-T
Q8C4	351G0601	TR DTC114ES-T
Q8C5	351G0601	TR DTC114ES-T
Q8C6	350H5018	TR,2SC3811-TA R
Q807	350E3218	TR 2SC1740S-T R
Q860	35560416	TR 2SD794A P
Q861	350E3218	TR 2SC1740S-T R
Q862	350E3218	TR 2SC1740S-T R
Q863	350K5718	TR 2SA933S-T R
Q864	350K5718	TR 2SA933S-T R
Q951	350K5718	TR 2SA933S-T R
Q952	350E3218	TR 2SC1740S-T R
Q953	35094200	TR 2SC4572
Q954	350K4311	TR 2SA953-T K
Q955	35094200	TR 2SC4572
Q956	35011600	TR 2SA1831
Q957	350E3218	TR 2SC1740S-T R
Q958	35084600	TR,2SC3675

*** DIODES ***

D101	360K1027	DIODE 1SS132
D102	360K1027	DIODE 1SS132
D103	360K1027	DIODE 1SS132
D104	360K1027	DIODE 1SS132
D105	360K1027	DIODE 1SS132
D106	360K1027	DIODE 1SS132
D107	360K1027	DIODE 1SS132
D108	360K1027	DIODE 1SS132
D109	360K1027	DIODE 1SS132
D110	360K1027	DIODE 1SS132
D111	360K1027	DIODE 1SS132
D112	360K1027	DIODE 1SS132
D113	360K1027	DIODE 1SS132
D114	360K1027	DIODE 1SS132
D115	360K1027	DIODE 1SS132
D116	360K1027	DIODE 1SS132
D120	35801340	LED SLR-34MC3F
D121	36801343	LED SLA-570MT3F(XJ,XK,XL)
D122	36801343	LED SLA-570MT3F(XJ,XK,XL)
D2003	360K1027	DIODE 1SS132

SYMBOL	PARTS NO	DESCRIPTION
⚠D582	36108238	DIODE FMP-G3FS
⚠D583	36107560	DIODE RG2A2
⚠D584	36107560	DIODE RG2A2
D590	361K7562	DIODE EGP10G G23
D591	360K1027	DIODE 1SS132
D592	360K1027	DIODE 1SS132
D601	36808230	DIODE RBV-1506
D602	361K7303	DIODE EU02 V1
D603	36107174	DIODE RU1B
D604	361K7322	DIODE EL1Z-T
D605	360K1010	DIODE,SI.1S2472
D651	36107320	DIODE FMG-G26S
D652	36107320	DIODE FMG-G26S
D653	36108072	D.NETWORK DSLCA20
D654	360K1027	DIODE 1SS132
D655	360K1027	DIODE 1SS132
D656	36107178	DIODE RU3
D700	360K1027	DIODE 1SS132
D701	360K1027	DIODE 1SS132
D702	360K1027	DIODE 1SS132
D703	360K1027	DIODE 1SS132
D704	360K1027	DIODE 1SS132
D705	360K1027	DIODE 1SS132
D706	360K1027	DIODE 1SS132
D707	360K1027	DIODE 1SS132
D708	360K1027	DIODE 1SS132
D709	360K1027	DIODE 1SS132
D710	360K1027	DIODE 1SS132
D711	360K1027	DIODE 1SS132
D712	360K1027	DIODE 1SS132
D713	360K1027	DIODE 1SS132
D714	360K1027	DIODE 1SS132
D715	360K1027	DIODE 1SS132
D716	360K1027	DIODE 1SS132
D717	360K1027	DIODE 1SS132
D718	360K1027	DIODE 1SS132
D719	360K1027	DIODE 1SS132
D720	360K1027	DIODE 1SS132
D721	360K1027	DIODE 1SS132

SYMBOL	PARTS NO	DESCRIPTION
D722	360K1027	DIODE 1SS132
D723	360K1027	DIODE 1SS132
D725	360K1027	DIODE 1SS132
D726	360K1027	DIODE 1SS132
D727	360K1027	DIODE 1SS132
D728	360K1027	DIODE 1SS132
D729	360K1027	DIODE 1SS132
D730	360K1027	DIODE 1SS132
D731	369K2136	DIODE RGP10G,AT
D732	369K2136	DIODE RGP10G,AT
D755	360K1032	DIODE 1SS82-TA
D756	360K1032	DIODE 1SS82-TA
D757	360K1032	DIODE 1SS82-TA
D758	360K1032	DIODE 1SS82-TA
D759	360K1032	DIODE 1SS82-TA
D760	360K1032	DIODE 1SS82-TA
D761	360K1032	DIODE 1SS82-TA
D762	360K1032	DIODE 1SS82-TA
D763	360K1032	DIODE 1SS82-TA
D8A1	360K1027	DIODE 1SS132
D8A2	360K1027	DIODE 1SS132
D8A3	360K1027	DIODE 1SS132
D8A4	360K1027	DIODE 1SS132
D8A5	360K1027	DIODE 1SS132
D8A6	360K1027	DIODE 1SS132
D8A7	361C7293	DIODE RK14
D8A9	361K7562	DIODE EGP10G G23
D8C0	361K7562	DIODE EGP10G G23
D8C3	369K2135	DIODE RGP10G,AT
D8C4	369K2136	DIODE RGP10G,AT
D8G0	360K1027	DIODE 1SS132
D8G1	360K1027	DIODE 1SS132
D8G2	360K1027	DIODE 1SS132
D8G3	360K1027	DIODE 1SS132
D8G4	360K1027	DIODE 1SS132
D8G5	360K1027	DIODE 1SS132
D8G6	360K1027	DIODE 1SS132
D8G7	360K1027	DIODE 1SS132
D8G8	360K1027	DIODE 1SS132

SYMBOL	PARTS NO	DESCRIPTION
D8G9	360K1027	DIODE 1SS132
D8H2	360K1027	DIODE 1SS132
D8H3	360K1027	DIODE 1SS132
D8H4	360K1027	DIODE 1SS132
D803	360K1027	DIODE 1SS132
D804	360K1027	DIODE 1SS132
D805	360K1027	DIODE 1SS132
D806	360K1027	DIODE 1SS132
D860	360K1027	DIODE 1SS132
D861	360K1027	DIODE 1SS132
D862	360K1027	DIODE 1SS132
D863	360K1027	DIODE 1SS132
D864	360K1027	DIODE 1SS132
D901	360K1027	DIODE 1SS132
D902	360K1032	DIODE 1SS82-TA
D951	360K1027	DIODE 1SS132
D952	360K1027	DIODE 1SS132
D953	360K1027	DIODE 1SS132
D954	360K1027	DIODE 1SS132
MD801	361K8233	DIODE DAN209S-TP
MD802	361K8233	DIODE DAN209S-TP
PC601	38200234	IC PC817C/D
PC602	38200234	IC PC817C/D
TH601	38102046	THERMISTOR 902P61D050MP14
⚠ZD2001	360K3416	DIODE RD5.1JSB(2)-T4
⚠ZD2002	360K3416	DIODE RD5.1JSB(2)-T4
ZD2101	360K3647	DIODE RD6.8ESB(2)-T4
ZD401	360K3617	DIODE RD3.3ESB(1)-T4
ZD451	369K5512	DIODE,ZENER RD18JSB2
ZD452	360K3118	DIODE,RD10EB(1)-T4
ZD461	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD471	360K3134	DIODE RD15EB(2)-T4
ZD5A0	360K3157	DIODE RD5.1EB(3)-T4
ZD5A1	360K3134	DIODE RD15EB(2)-T4
ZD5A2	360K3326	DIODE RD18EB(3)-T4
ZD5D1	360K3656	DIODE RD8.2ESB(2)/ESAB(2)
ZD5E0	360K3635	DIODE RD5.1ESB(2)-T4
ZD5E1	360K3134	DIODE RD15EB(2)-T4
ZD5E2	360K3098	DIODE RD12EB(3)-T4

SYMBOL	PARTS NO	DESCRIPTION
⚠ZD5E4	360K3675	DIODE RD13ESB(2)-T4
ZD5G0	360K3654	DIODE RD8.2ESB(1)-T4
ZD5G1	360K3658	DIODE RD9.1ESB(1)-T4
ZD5G2	360K3624	DIODE RD3.9ESB(2)-T4
ZD5G3	360K3656	DIODE RD8.2ESB(3)-T4
ZD5R1	360K3145	DIODE RD27EB-T4
ZD5R2	360K3161	DIODE RD12EB(2)-T4
ZD501	360K3403	DIODE RD5.1JSB(1)-T4
ZD502	360K3188	DIODE RD3.9EB(2)-T4
ZD503	360K3160	DIODE RD8.2EB(2)-T4
ZD561	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD571	360K3134	DIODE RD15EB(2)-T4
ZD591	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD592	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD651	360K3721	DIODE RC36ESB(3)-T4
ZD652	360K3124	DIODE RD8.2EB (3)-T4
ZD653	360K3123	DIODE RD20EB(3)
ZD710	360K3654	DIODE RD8.2ESB(1)-T4
ZD711	360K3300	DIODE RD2.0EB(1)-T4
ZD712	360K3300	DIODE RD2.0EB(1)-T4
ZD713	360K3300	DIODE RD2.0EB(1)-T4
ZD8A1	360K3654	DIODE RD8.2ESB(1)-T4
ZD8A2	360K3683	DIODE RD16ESB(2)-T4
ZD8A3	360K3169	DIODE RD6.2EB(2)-T4
ZD8A4	360K3634	DIODE RD5.1ESB(1)-T4
ZD801	360K3087	DIODE RD3.0EB-T4
ZD802	367K0017	DIODE RD4.7EB-T4
ZD803	360K3637	DIODE RD5.6ESB-T4
ZD860	360K3114	DIODE 8.2EB(1)
ZD861	357K0048	DIODE RD5.1FB(2)
ZD951	360K3605	DIODE RD2.2ESB(1)-T4

*** TRANSFORMERS ***

L5G1	46206006	TRANS,CHOKE 2MH
L5M1	46206005	TRANS,CHOKE 4MH
⚠T5A1	47105677	F.B.T.(SR)
T5G0	46302105	TRANS,FERRITE
T5M0	46302105	TRANS,FERRITE
T571	45804008	TRANS,H.DRIVE

SYMBOL	PARTS NO	DESCRIPTION
⚠T581	47710017	TRANS,H.OUTPUT
T601	46311115	TRANS,SWITCHING W328
T8A1	46304111	TRANS,CONVERTER

*** VARIABLE RESISTORS ***

VR101	41011106	R,VARIABLE B10K-V
VR102	41011106	R,VARIABLE B10K-V
⚠VR2001	41505007	R,VARIABLE B5K
VR401	41085009	R,VARIABLE B10K
VR411	41085005	R,VARIABLE B1K
VR421	41085009	R,VARIABLE B10K
VR431	41085014	R,VARIABLE B200K
VR441	41085012	R,VARIABLE B50K
VR461	41085056	R,VARIABLE B2K
VR501	41505005	R,VARIABLE B2K
⚠VR5E1	41505007	R,VARIABLE B5K
VR5S2	41085066	R,VARIABLE B500K
VR5U1	41085059	R,VARIABLE B10K
VR5W1	41085059	R,VARIABLE B10K
VR56A	41085012	R,VARIABLE B50K
VR56C	41085014	R,VARIABLE B200K
VR56E	41085014	R,VARIABLE B200K
VR590	41085009	R,VARIABLE B10K
VR651	41505103	R,VARIABLE B500
VR701	410G1210	R,VARIABLE B3.3K
VR702	410G1210	R,VARIABLE B3.3K
VR703	410G1210	R,VARIABLE B3.3K
VR720	415K5159	R,VARIABLE B20K
VR721	415K5159	R,VARIABLE B20K
VR722	415K5159	R,VARIABLE B20K
VR723	415K5159	R,VARIABLE B20K
VR724	415K5159	R,VARIABLE B20K
VR725	415K5159	R,VARIABLE B20K
VR8A1	410G1207	R,VARIABLE B1.0K
VR801	410G1415	R,VARIABLE B22K-T
VR802	410G1415	R,VARIABLE B22K-T
VR850	410G1213	R,VARIABLE B10K
VR851	410G1211	R,VARIABLE B4.7K
VR901	41085014	R,VARIABLE B200K
VR951	41085009	R,VARIABLE B10K

SYMBOL	PARTS NO	DESCRIPTION
VR952	41085014	R,VARIABLE B200K
***	RELAYS & SWITCHES	***
	65360029	SWITCH,PUSH BUTTON
RL590	65660004	RELAY G6C-1114P-US
RL591	65660004	RELAY G6C-1114P-US
RL601	65660019	RELAY G5P-1(24V)
SW101	653F0031	SWITCH,PUSH BUTTON
SW102	653F0031	SWITCH,PUSH BUTTON
SW103	653F0031	SWITCH,PUSH BUTTON
SW104	653F0031	SWITCH,PUSH BUTTON
SW105	653F0031	SWITCH,PUSH BUTTON
SW106	653F0031	SWITCH,PUSH BUTTON
SW107	653F0031	SWITCH,PUSH BUTTON
SW108	653F0031	SWITCH,PUSH BUTTON
SW109	653F0031	SWITCH,PUSH BUTTON
SW110	653F0031	SWITCH,PUSH BUTTON
SW111	65161067	SWITCH,SLIDE 1-6L-2NS V
SW112	65161068	SWITCH,SLIDE 1-6L-3NS V
SW401	65161048	SWITCH,SLIDE
SW701	65161066	SWITCH,SLIDE 2-6L-2NS(SI)
***	COILS & FILTERS	***
	61062178	POWER LINE FILTER
DEG	61317101	COIL,DEGAUSSING
FL601	61062171	LINE FILTER (4.3A 2.7MH)
LC701	616K6801	NOISE FILTER 2R2-101-T
LC702	616K6801	NOISE FILTER 2R2-101-T
LC703	616K6801	NOISE FILTER 2R2-101-T
LC704	616K6801	NOISE FILTER 2R2-101-T
LC705	616K6965	NOISE FILTER TX09500NBT
LC706	616K6965	NOISE FILTER TX09500NBT
LC707	616K6965	NOISE FILTER TX09500NBT
LC708	616K6964	NOISE FILTER TX07250NBT
LC709	616K6964	NOISE FILTER TX07250NBT
LC710	616K6964	NOISE FILTER TX07250NBT
LC711	616K6946	NOISE FILTER TH28123MA
LC712	616K6946	NOISE FILTER TH28123MA
LC713	616K6946	NOISE FILTER TH28123MA

SYMBOL	PARTS NO	DESCRIPTION
LC714	616K6946	NOISE FILTER TH28123MA
LC715	616K6946	NOISE FILTER TH28123MA
LC901	616K6028	NOISE FILTER 1H223X-TA
LC902	616K6946	NOISE FILTER TH28123MA
⚠ L5E1	61064006	COIL,FILTER 50UH
L5G0	61064006	COIL,FILTER 50UH
L5G2	61064006	COIL,FILTER 50UH
⚠ L5M0	61064006	COIL,FILTER 50UH
L5S1	61CE1717	COIL,FILTER 10UH
⚠ L590	60919122	COIL,H.LIN. N-60 (10T)
⚠ L591	60919121	COIL,H.LIN. N-59 (16T)
⚠ L592	60919121	COIL,H.LIN. N-59 (16T)
⚠ L593	61099019	COIL,CHOKE 10MH
⚠ L594	61070135	FILTER CHOKE 4MH
L601	61072349	COIL,FILTER
L602	610F5002	FERRITE BEADS (B-02-RT)
L651	61099036	FILTER CHOKE
L652	61099014	COIL,CHOKE 33UH
L653	61099013	COIL,CHOKE 10UH
L704	61099011	COIL,CHOKE 33UH
L710	610E1726	COIL,FILTER 56UH
L711	610E1726	COIL,FILTER 56UH
L712	610E1726	COIL,FILTER 56UH
L720	610F6014	COIL,FILTER 5.6UH
L721	610F6014	COIL,FILTER 5.6UH
L722	610F6014	COIL,FILTER 5.6UH
L8A1	61064006	COIL,FILTER 50UH
L8A2	61064006	COIL,FILTER 50UH
L8A3	61099047	FILTER CHOKE
L8A5	61055001	COIL,FILTER 8500UH
L901	610F7619	COIL,FILTER 0.15UH
L902	610F7619	COIL,FILTER 0.15UH
L903	610F7619	COIL,FILTER 0.15UH
MC801	39013042	C,CERAMIC 25V 0.01UF
MC802	39013042	C,CERAMIC 25V 0.01UF
MC803	39013042	C,CERAMIC 25V 0.01UF
MC804	39013042	C,CERAMIC 25V 0.01UF
MR801	390C9804	R,NETWORK
MR802	390C0151	R,NETWORK 8*10K 5% 1/8W
MR803	390C9805	R,NETWORK 4*1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
MR804	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR805	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR806	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR807	390C9805	R,NETWORK 4*1.0K 5% 1/6W
***	PWB ASSYS	***
⚠	84N64A01	SW.REG PWB ASSY
	84N65C01	VIDEO PWB ASSY
	84N65J01	CRT PWB ASSY
	84N65M01	CPU PWB ASSY
	84N65S01	SDP PWB ASSY
	84N65T01	TR PWB ASSY
	84N90D01	DEF PWB ASSY
***	ELECTRICAL PARTS & MISCELLANEOUS PARTS	***
	70032054	SG/CRT SOCKET(DBF)
	70051321	RECEPTACLE 3P
	70810757	LINE CORD 3P L=1.8
	71205037	HOLDER,FUSE
	73893105	CABLE,SIGNAL D15P-MD15P
	74004891	CAP
	79692941	FG-ACC-P
	79692951	FG-ACC-M.
CN-D1	70056399	D-SUB SOCKET 15PV
CN-D2	70056398	MINI D-SUB SOCKET 15PV
F601	66653052	FUSE MF51NM125V6.3A-UC
F651	66653017	FUSE 125V 4A-UC
HS1	31709204	SHEET,HEAT SINK
HS2	31709105	SHEET,HEAT SINK
HS3	31709512	SHEET INSULATOR M-45
HS5A4	31709614	SHEET,INSULATOR M-45
HS581	31709507	SHEET,INSULATOR HEAT SINK
HS582	31709503	SHEET,INSULATOR
SG901	329J0047	ARRESTER (300V),AT52
SG902	329J0047	ARRESTER (300V),AT52
SG903	329J0047	ARRESTER (300V),AT52
SG904	329J0047	ARRESTER (300V),AT52
SG905	56706002	SPARK GAP 1.5KV
SG951	667K7001	SPARK GAP 1.2KV
X301	64098031	X'TAL 12000KHZ

SYMBOL	PARTS NO	DESCRIPTION
***	APPEARANCE PARTS	***
	25282981	SCREW REVET
	25283511	JOINT
	25313911	CABINET FRONT ASSY
	25313931	CABINET BACK(A)ASSY
	25313951	CABINET BACK (B) ASSY
	25313971	CABINET BOTTOM
	25419341	HOOK (B)
	25419371	ESCUTCHEON
	25419381	REVOLVING STAND ASSY
	25419401	REVOLVING SPINDLE
	25420251	LID,CONTROL ASSY
	25534631	COIL SPRING
	25607291	SLIDE SHEET
	25757643	LABEL(REV.)
	25775051	NAME PLATE,INSTRUCTION(720)
	25775061	NAME PLATE,INSTRUCTION(720N)
	25775071	NAME PLATE,INSTRUCTION(720NKI)
	25775711	NAME PLATE,INSTRUCTION(720NKI)
	25777461	NAME PLATE,INSTRUCTION(720NK)
	25775701	LABEL (CONTROL)
***	KNOBS & PUSH BUTTONS	***
	25454691	KNOB,SLIDE
	25454741	PUSH BUTTON (SW)
	25454751	KNOB,CONTROL
***	PRINTED & PACKING MATERIALS	***
	24813191	BAG,POLYETHYLENE(150*370)
	24814531	BAG,POLYETHYLENE (180*350)
	25815061	BAG,POLYETHYLENE (270*370
	25822831	SHEET PROTECTION
	25823551	FILLER T.CARTON
	25823561	FILLER (B) CARTON
	25825071	CARTON BOX (UC-PG1UMA)
	25826101	CARTON BOX(B)
	78034298	MONITOR GUEST SPANARE
	78034401	MONITOR SALES OPERATE LIST
	78126001	USER'S MANUAL (BFG/BFG)A
	78652201	TEMPLATE A

SYMBOL	PARTS NO	DESCRIPTION
***	RESISTORS ***	
R110	401K5655	R,CARBON 180H 5% 1/6W
R111	401K5673	R,CARBON 1.0K 5% 1/6W
R120	401K5693	R,CARBON 6.8K 5% 1/6W
R121	401K5669	R,CARBON 680H 5% 1/6W
R122	404C1683	R,METAL 2.7K 1% 1/6W
R123	404C1691	R,METAL 5.6K 1% 1/6W
R124	401C5667	R,CARBON 560H 5% 1/4W
⚠R200A	401K5711	R,CARBON 39K 5% 1/6W
⚠R200C	401K5711	R,CARBON 39K 5% 1/6W
⚠R200F	401K5715	R,CARBON 56K 5% 1/6W
⚠R2001	404C1721	R,METAL 100K 1% 1/6W
⚠R2006	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R2007	401K5697	R,CARBON 10K 5% 1/6W
⚠R2008	401K5721	R,CARBON 100K 5% 1/6W
⚠R2009	401K5713	R,CARBON 47K 5% 1/6W
⚠R201D	401K5753	R,CARBON 2.2M 5% 1/6W
⚠R201E	401K5711	R,CARBON 39K 5% 1/6W
⚠R201F	401K5721	R,CARBON 100K 5% 1/6W
⚠R201G	401K5685	R,CARBON 3.3K 5% 1/6W
⚠R201H	401K5693	R,CARBON 6.8K 5% 1/6W
⚠R201K	401K5697	R,CARBON 10K 5% 1/6W
⚠R201L	401K5705	R,CARBON 22K 5% 1/6W
⚠R201M	401K5689	R,CARBON 4.7K 5% 1/6W
⚠R2010	401K5697	R,CARBON 10K 5% 1/6W
⚠R2011	401K5649	R,CARBON 100H 5% 1/6W
⚠R2012	401K5709	R,CARBON 33K 5% 1/6W
⚠R2013	401K5699	R,CARBON 12K 5% 1/6W
⚠R2016	404C1677	R,METAL 1.5K 1% 1/6W
⚠R2019	404C1697	R,METAL 10K 1% 1/6W
⚠R2020	401K5697	R,CARBON 10K 5% 1/6W
⚠R2100	401K5753	R,CARBON 2.2M 5% 1/6W
R2101	401K5709	R,CARBON 33K 5% 1/6W
R2102	401K5559	R,CARBON 270H 5% 1/6W
R2104	401K5701	R,CARBON 15K 5% 1/6W
R401	401K5689	R,CARBON 4.7K 5% 1/6W
R402	401K5699	R,CARBON 12K 5% 1/6W
R403	404C1694	R,METAL 7.5K 1% 1/6W
R404	401K5705	R,CARBON 22K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R455	401K5673	R,CARBON 1.0K 5% 1/6W
R456	403F3143	R,METAL OXIDE 56H 5% 3W
R457	403F3143	R,METAL OXIDE 56H 5% 3W
R461	404K5117	R,METAL 4.7H 5% 1/4W
R462	401K5589	R,CARBON 4.7K 5% 1/6W
R463	401K5587	R,CARBON 3.9K 5% 1/6W
R464	401K5697	R,CARBON 10K 5% 1/6W
R465	401K5691	R,CARBON 5.6K 5% 1/6W
R466	401K5681	R,CARBON 2.2K 5% 1/6W
R471	404C1713	R,METAL 47K 1% 1/6W
R472	404C1699	R,METAL 12K 1% 1/6W
R473	404C1719	R,METAL 82K 1% 1/6W
R474	401K5677	R,CARBON 1.5K 5% 1/6W
R475	401K5697	R,CARBON 10K 5% 1/6W
R476	403F2169	R,METAL OXIDE 680H 5% 2W
R477	403F2169	R,METAL OXIDE 680H 5% 2W
⚠R481	404K5125	R,METAL 10H 5% 1/4W
R482	401K5711	R,CARBON 39K 5% 1/6W
R483	401K5715	R,CARBON 56K 5% 1/6W
R484	401K5723	R,CARBON 120K 5% 1/6W
⚠R491	401G6173	R,CARBON 1.0K 5% 1/4W
R492	401K5749	R,CARBON 1.5M 5% 1/6W
⚠R5AA	401C6745	R,CARBON 1.0M 5% 1/4W
⚠R5AC	401C6745	R,CARBON 1.0M 5% 1/4W
R5A0	401K5583	R,CARBON 2.7K 5% 1/6W
R5A1	403F1177	R,METAL OXIDE 1.5K 5% 1W
R5A2	404C1685	R,METAL 3.3K 1% 1/6W
R5A3	401K5713	R,CARBON 47K 5% 1/6W
R5A4	401K5583	R,CARBON 2.7K 5% 1/6W
R5A5	401K5683	R,CARBON 2.7K 5% 1/6W
R5A6	403F1173	R,METAL OXIED 1.0K 5% 1W
R5A7	401K5677	R,CARBON 1.5K 5% 1/6W
R5A8	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5A9	401G8137	R,CARBON 33H 5% 1/2W
⚠R5C1	401T5125	R,CARBON 10H 5% 1/4W
⚠R5C2	401T5125	R,CARBON 10H 5% 1/4W
⚠R5C3	404K5109	R,METAL 2.2H 5% 1/4W
R5C4	401K5709	R,CARBON 33K 5% 1/6W
⚠R5D1	404K5109	R,METAL 2.2H 5% 1/4W

SYMBOL	PARTS NO	DESCRIPTION
R405	403F1163	R,METAL OXIED 390H 5% 1W
R406	401C6609	R,CARBON 2.2H 5% 1/4W
R407	401K5681	R,CARBON 2.2K 5% 1/6W
R408	401K5649	R,CARBON 100H 5% 1/6W
R409	401K5673	R,CARBON 1.0K 5% 1/6W
R410	403F2101	R,METAL 1.0H 5% 2W
R411	401K5685	R,CARBON 3.3K 5% 1/6W
R420	401K5699	R,CARBON 12K 5% 1/6W
R421	401K5701	R,CARBON 15K 5% 1/6W
R422	401K5711	R,CARBON 39K 5% 1/6W
R423	401K5709	R,CARBON 33K 5% 1/6W
R424	401K5707	R,CARBON 27K 5% 1/6W
R425	404C1713	R,METAL 47K 1% 1/6W
R426	404C1719	R,METAL 82K 1% 1/6W
R427	404C1737	R,METAL 470K 1% 1/6W
R428	404C1729	R,METAL 220K 1% 1/6W
R429	404C1717	R,METAL 68K 1% 1/6W
R430	404C1725	R,METAL 150K 1% 1/6W
R431	401K5721	R,CARBON 100K 5% 1/6W
R433	401K5721	R,CARBON 100K 5% 1/6W
R434	401K5721	R,CARBON 100K 5% 1/6W
R435	401K5721	R,CARBON 100K 5% 1/6W
R436	401K5715	R,CARBON 56K 5% 1/6W
R437	401K5715	R,CARBON 56K 5% 1/6W
R438	401K5737	R,CARBON 470K 5% 1/6W
R439	401K5757	R,CARBON 3.3M 5% 1/6W
R440	401K5743	R,CARBON 820K 5% 1/6W
R441	404C1741	R,METAL 680K 1% 1/6W
R442	404C1723	R,METAL 120K 1% 1/6W
R443	401K5713	R,CARBON 47K 5% 1/6W
R444	404C1741	R,METAL 680K 1% 1/6W
R445	404C1719	R,METAL 82K 1% 1/6W
R446	404C1727	R,METAL 180K 1% 1/6W
R447	404C1707	R,METAL 27K 1% 1/6W
R450	401K5717	R,CARBON 68K 5% 1/6W
R451	401K5707	R,CARBON 27K 5% 1/6W
R452	401K5721	R,CARBON 100K 5% 1/6W
R453	401K5721	R,CARBON 100K 5% 1/6W
R454	401K5673	R,CARBON 1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R5D2	401K5691	R,CARBON 5.6K 5% 1/6W
R5D3	401K5677	R,CARBON 1.5K 5% 1/6W
⚠R5D4	401G6191	R,CARBON 5.6K 5% 1/4W
R5D5	401K5709	R,CARBON 33K 5% 1/6W
⚠R5D6	403F3173	R,METAL OXIDE 1.0K 5% 3W
R5D7	403T8994	R,METAL 2.2K 5% 5W
⚠R5EA	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E0	401K5683	R,CARBON 2.7K 5% 1/6W
⚠R5E1	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R5E2	401K5699	R,CARBON 12K 5% 1/6W
⚠R5E3	403F1173	R,METAL OXIED 1.0K 5% 1W
⚠R5E4	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E5	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E7	401J9820	RD16Z.0H.AT52
⚠R5E8	401C5691	R,CARBON 5.6K 5% 1/4W
⚠R5E9	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R5F0	404K5141	R,METAL 47H 5% 1/4W
R5F2	404K5125	R,METAL 10H 5% 1/4W
R5F3	404C1721	R,METAL 100K 1% 1/6W
R5F4	404C1703	R,METAL 18K 1% 1/6W
R5F8	404C1721	R,METAL 100K 1% 1/6W
⚠R5F9	404K5109	R,METAL 2.2H 5% 1/4W
R5GA	401G6127	R,CARBON 12H 5% 1/4W
R5G1	401K5693	R,CARBON 6.8K 5% 1/6W
R5G2	401K5697	R,CARBON 10K 5% 1/6W
R5G3	401K5737	R,CARBON 470K 5% 1/6W
R5G4	401K5699	R,CARBON 12K 5% 1/6W
R5G5	401K5693	R,CARBON 6.8K 5% 1/6W
R5G6	401T5101	R,CARBON 1H 5% 1/4W
R5G7	401K5721	R,CARBON 100K 5% 1/6W
R5G8	401K5729	R,CARBON 220K 5% 1/6W
R5G9	401K5745	R,CARBON 1.0M 5% 1/6W
R5H0	401K5701	R,CARBON 15K 5% 1/6W
R5H1	401K5689	R,CARBON 4.7K 5% 1/6W
R5H2	401K5713	R,CARBON 47K 5% 1/6W
R5H3	401K5713	R,CARBON 47K 5% 1/6W
R5H4	401K5695	R,CARBON 8.2K 5% 1/6W
R5H5	401K5705	R,CARBON 22K 5% 1/6W
R5H7	401K5719	R,CARBON 82K 5% 1/6W
R5H8	401K5709	R,CARBON 33K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R5K3	401K5723	R,CARBON 120K 5% 1/6W
R5K5	401K5687	R,CARBON 3.9K 5% 1/6W
R5K6	401K5633	R,CARBON 22H 5% 1/6W
R5K7	401K5693	R,CARBON 6.8K 5% 1/6W
R5M0	401K5693	R,CARBON 6.8K 5% 1/6W
⚠R5M1	40175127	R,CARBON 12H 5% 1/4W
R5M2	401K5705	R,CARBON 22K 5% 1/6W
R5M3	401K5723	R,CARBON 120K 5% 1/6W
R5M5	401K5745	R,CARBON 1.0M 5% 1/6W
R5M6	401K5709	R,CARBON 33K 5% 1/6W
R5M7	401K5715	R,CARBON 56K 5% 1/6W
R5M8	401K5697	R,CARBON 10K 5% 1/6W
R5N0	401K5687	R,CARBON 3.9K 5% 1/6W
R5N1	401K5693	R,CARBON 6.8K 5% 1/6W
R5N2	401K5641	R,CARBON 47H 5% 1/6W
⚠R5N3	408A8109	R,FUSE 2.2H 5% 1/2W
⚠R5N4	401G6185	R,CARBON 3.3K 5% 1/4W
⚠R5N5	401H5741	R,CARBON 680K 5% 1/2W
R5N7	401K5733	R,CARBON 330K 5% 1/6W
R5N9	404C1725	R,METAL 150K 1% 1/6W
R5R0	401K5699	R,CARBON 12K 5% 1/6W
R5R4	401K5689	R,CARBON 4.7K 5% 1/6W
R5R5	401K5679	R,CARBON 1.8K 5% 1/6W
R5R6	401C6669	R,CARBON 680H 5% 1/4W
R5R7	401K5699	R,CARBON 12K 5% 1/6W
⚠R5R8	404D5125	R,METAL 10H 5% 1/4W
R5S0	404C1713	R,METAL 47K 1% 1/6W
R5S1	404C1721	R,METAL 100K 1% 1/6W
R5S2	404C1721	R,METAL 100K 1% 1/6W
R5S3	401K5697	R,CARBON 10K 5% 1/6W
R5S4	401K5697	R,CARBON 10K 5% 1/6W
R5S5	404C1703	R,METAL 18K 1% 1/6W
R5S6	401K5725	R,CARBON 150K 5% 1/6W
R5S7	401K5721	R,CARBON 100K 5% 1/6W
R5S8	401K5713	R,CARBON 47K 5% 1/6W
R5S9	401K5721	R,CARBON 100K 5% 1/6W
R5T0	401K5713	R,CARBON 47K 5% 1/6W
R5T1	401K5697	R,CARBON 10K 5% 1/6W
R5T2	401K5697	R,CARBON 10K 5% 1/6W
R5T3	401K5707	R,CARBON 27K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R5T4	401K5697	R,CARBON 10K 5% 1/6W
R5T5	401K5693	R,CARBON 6.8K 5% 1/6W
R5T7	401K5705	R,CARBON 22K 5% 1/6W
R5T8	401K5719	R,CARBON 82K 5% 1/6W
R5U0	401K5697	R,CARBON 10K 5% 1/6W
R5U1	401K5721	R,CARBON 100K 5% 1/6W
R5U2	401K5697	R,CARBON 10K 5% 1/6W
R5U3	401K5697	R,CARBON 10K 5% 1/6W
R5U4	404C1710	R,METAL 36K 1% 1/6W
R5U5	404C1710	R,METAL 36K 1% 1/6W
R5U6	401K5707	R,CARBON 27K 5% 1/6W
R5U7	401K5683	R,CARBON 2.7K 5% 1/6W
R5U8	401K5721	R,CARBON 100K 5% 1/6W
R5U9	401K5705	R,CARBON 22K 5% 1/6W
R5W0	401K5729	R,CARBON 220K 5% 1/6W
R5W2	401K5721	R,CARBON 100K 5% 1/6W
R5W3	401K5721	R,CARBON 100K 5% 1/6W
R5W4	401K5673	R,CARBON 1.0K 5% 1/6W
R5W5	401K5673	R,CARBON 1.0K 5% 1/6W
R5W9	401K5705	R,CARBON 22K 5% 1/6W
R5X0	404C1697	R,METAL 10K 1% 1/6W
R5X1	401K5697	R,CARBON 10K 5% 1/6W
R5X2	404C1715	R,METAL 56K 1% 1/6W
R5X3	404C1715	R,METAL 56K 1% 1/6W
R5X4	401K5697	R,CARBON 10K 5% 1/6W
R5X5	401K5721	R,CARBON 100K 5% 1/6W
R5X6	401K5685	R,CARBON 3.3K 5% 1/6W
R5X7	401K5703	R,CARBON 18K 5% 1/6W
R5X8	404C1727	R,METAL 180K 1% 1/6W
R5X9	404C1721	R,METAL 100K 1% 1/6W
R5Y1	404C1721	R,METAL 100K 1% 1/6W
R5Y2	404C1721	R,METAL 100K 1% 1/6W
R5Y3	401K5697	R,CARBON 10K 5% 1/6W
R5Y4	401K5691	R,CARBON 5.6K 5% 1/6W
R5Y5	401K5717	R,CARBON 68K 5% 1/6W
R5Y6	401K5707	R,CARBON 27K 5% 1/6W
R50A	404C1697	R,METAL 10K 1% 1/6W
R50C	404C1675	R,METAL 1.2K 1% 1/6W
R50E	404C1721	R,METAL 100K 1% 1/6W
R50F	401K5601	R,CARBON 1H 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R50G	404C1703	R,METAL 18K 1% 1/6W
R50H	401K5727	R,CARBON 180K 5% 1/6W
R50K	401K5687	R,CARBON 3.9K 5% 1/6W
R50L	401K5727	R,CARBON 180K 5% 1/6W
R50M	401K5697	R,CARBON 10K 5% 1/6W
R50T	401K5707	R,CARBON 27K 5% 1/6W
R501	401K5757	R,CARBON 3.3M 5% 1/6W
⚠R502	401K5717	R,CARBON 68K 5% 1/6W
⚠R503	401K5709	R,CARBON 33K 5% 1/6W
R504	401K5697	R,CARBON 10K 5% 1/6W
R505	401K5697	R,CARBON 10K 5% 1/6W
R506	404C1729	R,METAL 220K 1% 1/6W
⚠R507	404C1721	R,METAL 100K 1% 1/6W
R508	404C1727	R,METAL 180K 1% 1/6W
R509	401K5709	R,CARBON 33K 5% 1/6W
R51A	404C1707	R,METAL 27K 1% 1/6W
R51C	401K5601	R,CARBON 1H 5% 1/6W
R51E	404C1721	R,METAL 100K 1% 1/6W
R51F	404C1689	R,METAL 4.7K 1% 1/6W
R51G	404C1705	R,METAL 22K 1% 1/6W
R51H	401K5735	R,CARBON 390K 5% 1/6W
R51K	401K5687	R,CARBON 3.9K 5% 1/6W
R510	404C1717	R,METAL 68K 1% 1/6W
R511	401K5675	R,CARBON 1.2K 5% 1/6W
R512	401K5699	R,CARBON 12K 5% 1/6W
R513	401K5659	R,CARBON 270H 5% 1/6W
R514	401K5693	R,CARBON 6.8K 5% 1/6W
R515	401K5697	R,CARBON 10K 5% 1/6W
R516	401K5673	R,CARBON 1.0K 5% 1/6W
R519	403F2171	R,METAL 820H 5% 2W
R52A	404C1711	R,METAL 39K 1% 1/6W
R52C	404C1695	R,METAL 8.2K 1% 1/6W
R52E	404C1721	R,METAL 100K 1% 1/6W
R52F	401K5685	R,CARBON 3.3K 5% 1/6W
R52G	404C1709	R,METAL 33K 1% 1/6W
R52H	401K5737	R,CARBON 470K 5% 1/6W
R52K	401K5687	R,CARBON 3.9K 5% 1/6W
R52T	401K5707	R,CARBON 27K 5% 1/6W
R520	401K5691	R,CARBON 5.6K 5% 1/6W
R521	403F3163	R,METAL OXIDE 390H 5% 3W

SYMBOL	PARTS NO	DESCRIPTION
R522	401K5705	R,CARBON 22K 5% 1/6W
R523	401K5699	R,CARBON 12K 5% 1/6W
R524	401J9820	RD16Z,OH,AT52
R526	401K5697	R,CARBON 10K 5% 1/6W
R527	401K5697	R,CARBON 10K 5% 1/6W
R528	401K5677	R,CARBON 1.5K 5% 1/6W
R529	401K5697	R,CARBON 10K 5% 1/6W
R53A	404C1721	R,METAL 100K 1% 1/6W
R53C	404C1699	R,METAL 12K 1% 1/6W
R53E	404C1721	R,METAL 100K 1% 1/6W
R53F	404C1705	R,METAL 22K 1% 1/6W
R53G	404C1711	R,METAL 39K 1% 1/6W
R53H	401K5743	R,CARBON 820K 5% 1/6W
R53K	401K5687	R,CARBON 3.9K 5% 1/6W
R53L	401K5673	R,CARBON 1.0K 5% 1/6W
R53S	401K5697	R,CARBON 10K 5% 1/6W
R53T	401K5707	R,CARBON 27K 5% 1/6W
R531	401K5709	R,CARBON 33K 5% 1/6W
R532	401K5709	R,CARBON 33K 5% 1/6W
R533	401K5689	R,CARBON 4.7K 5% 1/6W
R534	401K5709	R,CARBON 33K 5% 1/6W
R535	401K5673	R,CARBON 1.0K 5% 1/6W
R536	404C1703	R,METAL 18K 1% 1/6W
R537	404C1683	R,METAL 2.7K 1% 1/6W
R538	404C1705	R,METAL 22K 1% 1/6W
R54A	404C1725	R,METAL 150K 1% 1/6W
R54C	404C1707	R,METAL 27K 1% 1/6W
R54E	404C1721	R,METAL 100K 1% 1/6W
R54F	401K5601	R,CARBON 1H 5% 1/6W
R54G	404C1721	R,METAL 100K 1% 1/6W
R54H	401K5745	R,CARBON 1.0M 5% 1/6W
R54K	401K5687	R,CARBON 3.9K 5% 1/6W
R547	401K5707	R,CARBON 27K 5% 1/6W
R544	401K5697	R,CARBON 10K 5% 1/6W
R55A	404C1729	R,METAL 220K 1% 1/6W
R55C	404C1709	R,METAL 33K 1% 1/6W
R55E	404C1721	R,METAL 100K 1% 1/6W
R55F	404C1711	R,METAL 39K 1% 1/6W
R55G	404C1723	R,METAL 120K 1% 1/6W
R55H	401K5747	R,CARBON 1.2M 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R55K	401K5687	R,CARBON 3.9K 5% 1/6W
R55T	401K5707	R,CARBON 27K 5% 1/6W
R56A	401K5723	R,CARBON 120K 5% 1/6W
R56C	401K5721	R,CARBON 100K 5% 1/6W
R56E	401K5725	R,CARBON 150K 5% 1/6W
R56F	401K5723	R,CARBON 120K 5% 1/6W
R56G	401K5715	R,CARBON 56K 5% 1/6W
R56H	401K5715	R,CARBON 56K 5% 1/6W
R56K	404C1721	R,METAL 100K 1% 1/6W
R56L	404C1715	R,METAL 56K 1% 1/6W
R56M	401K5661	R,CARBON 330H 5% 1/6W
R56R	404C1697	R,METAL 10K 1% 1/6W
R56S	401K5657	R,CARBON 220H 5% 1/6W
R56T	401K5719	R,CARBON 82K 5% 1/6W
R56W	401K5731	R,CARBON 270K 5% 1/6W
R56X	401K5601	R,CARBON 1H 5% 1/6W
R568	401K5709	R,CARBON 33K 5% 1/6W
R569	401K5697	R,CARBON 10K 5% 1/6W
R57A	404C1717	R,METAL 68K 1% 1/6W
R57E	401K5649	R,CARBON 100H 5% 1/6W
⚠ R57F	404K5141	R,METAL 47H 5% 1/4W
⚠ R57G	409A8149	R,FUSE 100H 5% 1/4W
⚠ R57H	404K5109	R,METAL 2.2H 5% 1/4W
R57K	401K5681	R,CARBON 2.2K 5% 1/6W
⚠ R57L	404K5141	R,METAL 47H 5% 1/4W
⚠ R57T	403F1137	R,METAL 33H 5% 1W
⚠ R57V	403F3177	R,METAL OXIDE 1.5K 5% 3W
⚠ R570	404K5109	R,METAL 2.2H 5% 1/4W
R571	404C1729	R,METAL 220K 1% 1/6W
R572	404C1715	R,METAL 56K 1% 1/6W
R573	404C1705	R,METAL 22K 1% 1/6W
R574	404C1723	R,METAL 120K 1% 1/6W
R575	404C1729	R,METAL 220K 1% 1/6W
R576	404C1703	R,METAL 18K 1% 1/6W
R577	404C1705	R,METAL 22K 1% 1/6W
R578	401C5677	R,CARBON 1.5K 5% 1/4W
R579	404C1703	R,METAL 18K 1% 1/6W
R58A	404C1689	R,METAL 4.7K 1% 1/6W
R58C	401K5661	R,CARBON 330H 5% 1/6W
R58E	404C1721	R,METAL 100K 1% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R611	401J5145	R,CARBON 68H 5% 1/4W
R612	401J5125	R,CARBON 10H 5% 1/4W
R613	401K5705	R,CARBON 22K 5% 1/6W
R614	401K5701	R,CARBON 15K 5% 1/6W
R615	401K5657	R,CARBON 220H 5% 1/6W
R616	403J3209	R,METAL 33K 5% 3W
R617	403J3209	R,METAL 33K 5% 3W
R619	401H5667	R,CARBON 560H 5% 1/2W
R620	401K5721	R,CARBON 100K 5% 1/6W
R651	403J3135	R,METAL 27H 5% 3W
R652	401K5697	R,CARBON 10K 5% 1/6W
R653	404C1689	R,METAL 4.7K 1% 1/6W
R654	403J3135	R,METAL 27H 5% 3W
R655	401H5705	R,CARBON 22K 5% 1/2W
R656	403J2135	R,METAL 27H 5% 2W
R657	401K5677	R,CARBON 1.5K 5% 1/6W
R658	401K5677	R,CARBON 1.5K 5% 1/6W
R659	401K5675	R,CARBON 1.2K 5% 1/6W
R660	401K5705	R,CARBON 22K 5% 1/6W
R661	404C1683	R,METAL 2.7K 1% 1/6W
R662	401K5649	R,CARBON 100H 5% 1/6W
R663	401K5689	R,CARBON 4.7K 5% 1/6W
R664	403J2213	R,METAL 47K 5% 2W
R665	403J2197	R,METAL 10K 5% 2W
R666	403J2175	R,METAL 1.2K 5% 2W
R667	401C6665	R,CARBON 470H 5% 1/4W
R668	401C6657	R,CARBON 220H 5% 1/4W
R669	401K5713	R,CARBON 47K 5% 1/6W
R670	401K5701	R,CARBON 15K 5% 1/6W
R671	401K5717	R,CARBON 68K 5% 1/6W
R672	401K5669	R,CARBON 680H 5% 1/6W
R674	401K5673	R,CARBON 1.0K 5% 1/6W
R7A0	401K5649	R,CARBON 100H 5% 1/6W
R7A1	401K5649	R,CARBON 100H 5% 1/6W
R7A2	401K5649	R,CARBON 100H 5% 1/6W
R7A3	401K5663	R,CARBON 390H 5% 1/6W
R7A4	401K5687	R,CARBON 3.9K 5% 1/6W
R7A5	401K5663	R,CARBON 390H 5% 1/6W
R7A6	401K5687	R,CARBON 3.9K 5% 1/6W
R7A7	401K5663	R,CARBON 390H 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R58F	404C1681	R,METAL 2.2K 1% 1/6W
R58G	404C1699	R,METAL 12K 1% 1/6W
R58H	401K5721	R,CARBON 100K 5% 1/6W
R58K	401K5687	R,CARBON 3.9K 5% 1/6W
R58T	401K5707	R,CARBON 27K 5% 1/6W
R581	402J8004	R,WIRE 1.0H 1% 5W
R582	402J8004	R,WIRE 1.0H 1% 5W
R583	401C6651	R,CARBON 120H 5% 1/4W
R584	401C6651	R,CARBON 120H 5% 1/4W
R59A	401K5649	R,CARBON 100H 5% 1/6W
R59C	401K5649	R,CARBON 100H 5% 1/6W
R59E	401K5649	R,CARBON 100H 5% 1/6W
R59F	401K5649	R,CARBON 100H 5% 1/6W
R59G	401K5649	R,CARBON 100H 5% 1/6W
R59L	401K5685	R,CARBON 3.3K 5% 1/6W
R59M	401K5719	R,CARBON 82K 5% 1/6W
R59N	401K5699	R,CARBON 12K 5% 1/6W
R59S	401K5685	R,CARBON 3.3K 5% 1/6W
R59T	401K5685	R,CARBON 3.3K 5% 1/6W
R59W	401K5649	R,CARBON 100H 5% 1/6W
R590	401K5685	R,CARBON 3.3K 5% 1/6W
⚠ R591	404K5117	R,METAL 4.7H 5% 1/4W
⚠ R592	408A8157	R,FUSE 220H 5% 1/2W
⚠ R593	408A8157	R,FUSE 220H 5% 1/2W
⚠ R594	408A8157	R,FUSE 220H 5% 1/2W
R595	401K5685	R,CARBON 3.3K 5% 1/6W
R596	401K5667	R,CARBON 560H 5% 1/6W
R597	401K5685	R,CARBON 3.3K 5% 1/6W
R598	401K5667	R,CARBON 560H 5% 1/6W
R599	403F3141	R,METAL OXIDE 47H 5% 3W
R601	401H5729	R,CARBON 220K 5% 1/2W
R602	402J9104	R,WIRE 10H 5% 5W
R603	401H5737	R,CARBON 470K 5% 1/2W
R604	403J2151	R,METAL 120H 5% 2W
R605	401K5673	R,CARBON 1.0K 5% 1/6W
R606	403J2213	R,METAL 47K 5% 2W
R607	403J2191	R,METAL 5.6K 5% 2W
R608	403J2329	R,METAL 0.22H 5% 2W
R609	403J2329	R,METAL 0.22H 5% 2W
R610	403J3149	R,METAL 100H 5% 3W

SYMBOL	PARTS NO	DESCRIPTION
R7A8	401K5687	R,CARBON 3.9K 5% 1/6W
R7C0	401K5639	R,CARBON 39H 5% 1/6W
R7C1	401K5639	R,CARBON 39H 5% 1/6W
R7C2	401K5639	R,CARBON 39H 5% 1/6W
R7C3	401K5713	R,CARBON 47K 5% 1/6W
R7C4	401K5691	R,CARBON 5.6K 5% 1/6W
R7C5	401K5713	R,CARBON 47K 5% 1/6W
R7C6	401K5691	R,CARBON 5.6K 5% 1/6W
R7C7	401K5713	R,CARBON 47K 5% 1/6W
R7C8	401K5691	R,CARBON 5.6K 5% 1/6W
R7D0	401K5729	R,CARBON 220K 5% 1/6W
R7D1	401K5729	R,CARBON 220K 5% 1/6W
R7D2	401K5729	R,CARBON 220K 5% 1/6W
R7D3	401K5725	R,CARBON 150K 5% 1/6W
R7D4	401K5725	R,CARBON 150K 5% 1/6W
R7D5	401K5725	R,CARBON 150K 5% 1/6W
R7D6	401K5719	R,CARBON 82K 5% 1/6W
R7D7	401K5719	R,CARBON 82K 5% 1/6W
R7D8	401K5719	R,CARBON 82K 5% 1/6W
R7D9	401K5709	R,CARBON 33K 5% 1/6W
R7E0	401K5709	R,CARBON 33K 5% 1/6W
R7E1	401K5709	R,CARBON 33K 5% 1/6W
R7E2	401K5695	R,CARBON 8.2K 5% 1/6W
R7E3	401K5695	R,CARBON 8.2K 5% 1/6W
R7E4	401K5695	R,CARBON 8.2K 5% 1/6W
R7E5	401K5697	R,CARBON 10K 5% 1/6W
R7E6	401K5697	R,CARBON 10K 5% 1/6W
R7E7	401K5697	R,CARBON 10K 5% 1/6W
R7F0	401K5697	R,CARBON 10K 5% 1/6W
R7F1	401K5697	R,CARBON 10K 5% 1/6W
R7F2	401K5697	R,CARBON 10K 5% 1/6W
R7F3	401K5697	R,CARBON 10K 5% 1/6W
R7F4	401J9820	RD16Z,0H,AT52
R7F5	401J9820	RD16Z,0H,AT52
R7F6	401K5733	R,CARBON 330K 5% 1/6W
R7F7	401K5733	R,CARBON 330K 5% 1/6W
R7F8	401K5733	R,CARBON 330K 5% 1/6W
R7G0	401K5661	R,CARBON 330H 5% 1/6W
R7G1	401K5649	R,CARBON 100H 5% 1/6W
R7G2	401K5681	R,CARBON 2.2K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R7G3	401K5681	R,CARBON 2.2K 5% 1/6W
R7G4	401K5587	R,CARBON 3.9K 5% 1/6W
R7G5	403F2151	R,METAL OXIDE 120H 5% 2W
R701	404C1646	R,METAL 75H 1% 1/6W
R702	404C1646	R,METAL 75H 1% 1/6W
R703	404C1646	R,METAL 75H 1% 1/6W
R704	404C1646	R,METAL 75H 1% 1/6W
R705	404C1646	R,METAL 75H 1% 1/6W
R706	404C1646	R,METAL 75H 1% 1/6W
R707	401K5685	R,CARBON 3.3K 5% 1/6W
R708	401K5697	R,CARBON 10K 5% 1/6W
R709	401K5685	R,CARBON 3.3K 5% 1/6W
R710	401K5697	R,CARBON 10K 5% 1/6W
R711	401K5685	R,CARBON 3.3K 5% 1/6W
R712	401K5697	R,CARBON 10K 5% 1/6W
R713	401K5685	R,CARBON 3.3K 5% 1/6W
R714	401K5697	R,CARBON 10K 5% 1/6W
R715	401K5685	R,CARBON 3.3K 5% 1/6W
R716	401K5697	R,CARBON 10K 5% 1/6W
R717	401K5685	R,CARBON 3.3K 5% 1/6W
R718	401K5697	R,CARBON 10K 5% 1/6W
R719	401K5653	R,CARBON 150H 5% 1/6W
R720	401K5653	R,CARBON 150H 5% 1/6W
R721	401K5653	R,CARBON 150H 5% 1/6W
R722	401K5653	R,CARBON 150H 5% 1/6W
R723	401K5653	R,CARBON 150H 5% 1/6W
R724	401K5653	R,CARBON 150H 5% 1/6W
R725	401H5661	R,CARBON 330H 5% 1/2W
R726	401H5661	R,CARBON 330H 5% 1/2W
R727	401H5661	R,CARBON 330H 5% 1/2W
R729	404C1697	R,METAL 10K 1% 1/6W
R730	401K5705	R,CARBON 22K 5% 1/6W
R731	401K5681	R,CARBON 2.2K 5% 1/6W
R732	401K5681	R,CARBON 2.2K 5% 1/6W
R734	401K5705	R,CARBON 22K 5% 1/6W
R735	401K5681	R,CARBON 2.2K 5% 1/6W
R736	401K5681	R,CARBON 2.2K 5% 1/6W
R737	401K5681	R,CARBON 2.2K 5% 1/6W
R738	401K5673	R,CARBON 1.0K 5% 1/6W
R739	401K5581	R,CARBON 2.2K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R741	401K5699	R,CARBON 12K 5% 1/6W
R742	401K5697	R,CARBON 10K 5% 1/6W
R743	401K5699	R,CARBON 12K 5% 1/6W
R744	401K5697	R,CARBON 10K 5% 1/6W
R745	401K5693	R,CARBON 6.8K 5% 1/6W
R750	401K5649	R,CARBON 100H 5% 1/6W
R751	401K5649	R,CARBON 100H 5% 1/6W
R752	401K5649	R,CARBON 100H 5% 1/6W
R756	401K5669	R,CARBON 680H 5% 1/6W
R757	401K5669	R,CARBON 680H 5% 1/6W
R758	401K5669	R,CARBON 680H 5% 1/6W
R760	401K5653	R,CARBON 150H 5% 1/6W
R761	401K5653	R,CARBON 150H 5% 1/6W
R762	401K5653	R,CARBON 150H 5% 1/6W
R763	401K5689	R,CARBON 4.7K 5% 1/6W
R764	401K5697	R,CARBON 10K 5% 1/6W
R765	401K5697	R,CARBON 10K 5% 1/6W
R766	401K5697	R,CARBON 10K 5% 1/6W
R767	401K5697	R,CARBON 10K 5% 1/6W
R768	401K5697	R,CARBON 10K 5% 1/6W
R769	401K5697	R,CARBON 10K 5% 1/6W
R772	401K5697	R,CARBON 10K 5% 1/6W
R773	401K5697	R,CARBON 10K 5% 1/6W
R774	401K5697	R,CARBON 10K 5% 1/6W
R775	401K5671	R,CARBON 820H 5% 1/6W
R776	401K5685	R,CARBON 3.3K 5% 1/6W
R777	401K5671	R,CARBON 820H 5% 1/6W
R778	401K5685	R,CARBON 3.3K 5% 1/6W
R779	401K5671	R,CARBON 820H 5% 1/6W
R780	401K5685	R,CARBON 3.3K 5% 1/6W
R781	401K5665	R,CARBON 470H 5% 1/6W
R782	401K5665	R,CARBON 470H 5% 1/6W
R783	401K5665	R,CARBON 470H 5% 1/6W
R784	401K5655	R,CARBON 180H 5% 1/6W
R785	401K5655	R,CARBON 180H 5% 1/6W
R786	401K5655	R,CARBON 180H 5% 1/6W
R787	401K5673	R,CARBON 1.0K 5% 1/6W
R788	401K5673	R,CARBON 1.0K 5% 1/6W
R789	401K5673	R,CARBON 1.0K 5% 1/6W
R790	401H5657	R,CARBON 220H 5% 1/2W

SYMBOL	PARTS NO	DESCRIPTION
R791	401H5657	R,CARBON 220H 5% 1/2W
R792	401H5657	R,CARBON 220H 5% 1/2W
R793	401K5679	R,CARBON 1.8K 5% 1/6W
R795	404C1653	R,METAL 150H 1% 1/6W
R796	404C1653	R,METAL 150H 1% 1/6W
R797	404C1653	R,METAL 150H 1% 1/6W
R8A1	401H5683	R,CARBON 2.7K 5% 1/2W
R8A2	401K5697	R,CARBON 10K 5% 1/6W
R8A3	401K5697	R,CARBON 10K 5% 1/6W
R8A4	401H5681	R,CARBON 2.2K 5% 1/2W
R8A5	401K5701	R,CARBON 15K 5% 1/6W
R8A6	401K5701	R,CARBON 15K 5% 1/6W
R8A7	401K5727	R,CARBON 180K 5% 1/6W
R8A8	401K5705	R,CARBON 22K 5% 1/6W
R8A9	401K5695	R,CARBON 8.2K 5% 1/6W
R8C0	401K5697	R,CARBON 10K 5% 1/6W
R8C1	401K5681	R,CARBON 2.2K 5% 1/6W
R8C2	401K5681	R,CARBON 2.2K 5% 1/6W
R8C3	401K5705	R,CARBON 22K 5% 1/6W
R8C4	401C6761	R,CARBON 4.7M 5% 1/4W
R8C5	401K5743	R,CARBON 820K 5% 1/6W
R8C6	401K5665	R,CARBON 470H 5% 1/6W
R8C7	401K5697	R,CARBON 10K 5% 1/6W
R8C8	401K5745	R,CARBON 1.0M 5% 1/6W
R8D0	401K5643	R,CARBON 56H 5% 1/6W
R8E0	401K5687	R,CARBON 3.9K 5% 1/6W
R8E1	401K5691	R,CARBON 5.6K 5% 1/6W
R8E2	404C1697	R,METAL 10K 1% 1/6W
R8E3	404C1697	R,METAL 10K 1% 1/6W
R8E4	403F2151	R,METAL OXIDE 120H 5% 2W
R8E5	403F2151	R,METAL OXIDE 120H 5% 2W
R8E6	401K5669	R,CARBON 680H 5% 1/6W
R8E7	401K5655	R,CARBON 180H 5% 1/6W
R8E8	40399049	R,METAL 82H 5% 3W
R8F0	403F2103	R,METAL OXIDE 1.2H 5% 2W
R8F1	403F3137	R,METAL OXIDE 33H 5% 3W
R8F2	401K5715	R,CARBON 56K 5% 1/6W
R8F3	403F2109	R,METAL 2.2H 5% 2W
R8F4	401K5657	R,CARBON 220H 5% 1/2W
R8F5	403F2117	R,METAL OXIDE 4.7H 5% 2W

SYMBOL	PARTS NO	DESCRIPTION
R8F6	403F1125	R,METAL OXIDE 10H 5% 1W
R8F7	403F1135	R,METAL OXIDE 27H 5% 1W
R8F8	401K5697	R,CARBON 10K 5% 1/6W
R8F9	401J9820	RD15Z.0H,AT52
R8G0	401K5691	R,CARBON 5.6K 5% 1/6W
R8G1	401K5729	R,CARBON 220K 5% 1/6W
R8G2	401K5691	R,CARBON 5.6K 5% 1/6W
R8G3	401K5729	R,CARBON 220K 5% 1/6W
R8G4	401K5685	R,CARBON 3.3K 5% 1/6W
R8G5	401K5685	R,CARBON 3.3K 5% 1/6W
R8G6	401K5685	R,CARBON 3.3K 5% 1/6W
R8G7	401K5685	R,CARBON 3.3K 5% 1/6W
R8G8	401K5685	R,CARBON 3.3K 5% 1/6W
R8G9	401K5677	R,CARBON 1.5K 5% 1/6W
R8H0	401K5669	R,CARBON 680H 5% 1/6W
R8H1	401K5685	R,CARBON 3.3K 5% 1/6W
R8H2	401K5677	R,CARBON 1.5K 5% 1/6W
R8H3	401K5721	R,CARBON 100K 5% 1/6W
R8H4	401K5693	R,CARBON 6.8K 5% 1/6W
R8H5	401K5687	R,CARBON 3.9K 5% 1/6W
R8H6	401K5675	R,CARBON 1.2K 5% 1/6W
R8H7	401K5683	R,CARBON 2.7K 5% 1/6W
R8H8	401K5675	R,CARBON 1.2K 5% 1/6W
R8H9	401K5685	R,CARBON 3.3K 5% 1/6W
R8K0	401K5691	R,CARBON 5.6K 5% 1/6W
R8K1	401K5691	R,CARBON 5.6K 5% 1/6W
R8K2	401K5691	R,CARBON 5.6K 5% 1/6W
R8K3	401K5701	R,CARBON 15K 5% 1/6W
R8K4	401K5689	R,CARBON 4.7K 5% 1/6W
R8K5	401K5689	R,CARBON 4.7K 5% 1/6W
R8K6	401K5705	R,CARBON 22K 5% 1/6W
R8K7	401K5729	R,CARBON 220K 5% 1/6W
R8K8	401K5673	R,CARBON 1.0K 5% 1/6W
R8K9	401K5673	R,CARBON 1.0K 5% 1/6W
R8L0	401K5685	R,CARBON 3.3K 5% 1/6W
R8L1	401K5685	R,CARBON 3.3K 5% 1/6W
R8L3	401K5667	R,CARBON 560H 5% 1/6W
R8D1	401K5683	R,CARBON 2.7K 5% 1/6W
R8D2	401K5659	R,CARBON 270H 5% 1/6W
R8D3	401K5693	R,CARBON 6.8K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R805	401K5697	R,CARBON 10K 5% 1/6W
R806	401K5713	R,CARBON 47K 5% 1/6W
R807	401K5697	R,CARBON 10K 5% 1/6W
R808	401K5697	R,CARBON 10K 5% 1/6W
R809	401K5697	R,CARBON 10K 5% 1/6W
R810	401K5673	R,CARBON 1.0K 5% 1/6W
R811	401K5673	R,CARBON 1.0K 5% 1/6W
R816	401K5681	R,CARBON 2.2K 5% 1/6W
R817	401K5701	R,CARBON 15K 5% 1/6W
R818	401K5693	R,CARBON 6.8K 5% 1/6W
R832	401K5673	R,CARBON 1.0K 5% 1/6W
R834	401C6665	R,CARBON 470H 5% 1/4W
R835	401K5719	R,CARBON 82K 5% 1/6W
R836	401K5731	R,CARBON 270K 5% 1/6W
R837	401K5711	R,CARBON 39K 5% 1/6W
R838	404C1721	R,METAL 100K 1% 1/6W
R839	404C1724	R,METAL 130K 1% 1/6W
R840	404C1697	R,METAL 10K 1% 1/6W
R841	404C1721	R,METAL 100K 1% 1/6W
R842	404C1724	R,METAL 130K 1% 1/6W
R843	404C1697	R,METAL 10K 1% 1/6W
R844	404C1721	R,METAL 100K 1% 1/6W
R845	404C1724	R,METAL 130K 1% 1/6W
R846	404C1697	R,METAL 10K 1% 1/6W
R847	404C1721	R,METAL 100K 1% 1/6W
R848	404C1724	R,METAL 130K 1% 1/6W
R849	404C1697	R,METAL 10K 1% 1/6W
R850	401K5697	R,CARBON 10K 5% 1/6W
R851	401K5697	R,CARBON 10K 5% 1/6W
R852	401K5697	R,CARBON 10K 5% 1/6W
R853	401K5709	R,CARBON 33K 5% 1/6W
R854	401K5709	R,CARBON 33K 5% 1/6W
R855	401K5709	R,CARBON 33K 5% 1/6W
R856	401K5709	R,CARBON 33K 5% 1/6W
R857	401K5673	R,CARBON 1.0K 5% 1/6W
R858	401K5673	R,CARBON 1.0K 5% 1/6W
R859	401K5673	R,CARBON 1.0K 5% 1/6W
R86A	401K5673	R,CARBON 1.0K 5% 1/6W
R86C	401K5673	R,CARBON 1.0K 5% 1/6W
R860	404K5125	R,METAL 10H 5% 1/4W

SYMBOL	PARTS NO	DESCRIPTION
R861	403F3159	R,METAL OXIDE 270H 5% 3W
R862	401K5695	R,CARBON 8.2K 5% 1/6W
R863	401K5685	R,CARBON 3.3K 5% 1/6W
R864	401K5695	R,CARBON 8.2K 5% 1/6W
R865	401J9820	RD16Z,0H,AT52
R866	401K5689	R,CARBON 4.7K 5% 1/6W
R867	401K5697	R,CARBON 10K 5% 1/6W
R868	401K5697	R,CARBON 10K 5% 1/6W
R869	401K5695	R,CARBON 8.2K 5% 1/6W
R870	401K5683	R,CARBON 2.7K 5% 1/6W
R871	401K5673	R,CARBON 1.0K 5% 1/6W
R872	401K5685	R,CARBON 3.3K 5% 1/6W
R873	401K5673	R,CARBON 1.0K 5% 1/6W
R874	401K5697	R,CARBON 10K 5% 1/6W
R876	401K5683	R,CARBON 2.7K 5% 1/6W
R877	401K5673	R,CARBON 1.0K 5% 1/6W
R878	401K5673	R,CARBON 1.0K 5% 1/6W
R879	401K5673	R,CARBON 1.0K 5% 1/6W
R880	401K5673	R,CARBON 1.0K 5% 1/6W
R882	401K5673	R,CARBON 1.0K 5% 1/6W
R883	403F2149	R,METAL OXIDE 100H 5% 2W
R884	401K5697	R,CARBON 10K 5% 1/6W
R885	401K5709	R,CARBON 33K 5% 1/6W
R886	401K5699	R,CARBON 12K 5% 1/6W
R904	401H5645	R,CARBON 68H 5% 1/2W
R905	401H5645	R,CARBON 68H 5% 1/2W
R906	401H5645	R,CARBON 68H 5% 1/2W
R907	401K5697	R,CARBON 10K 5% 1/6W
R908	401K5749	R,CARBON 1.5M 5% 1/6W
R909	401K5633	R,CARBON 22H 5% 1/6W
R910	401K5649	R,CARBON 100H 5% 1/6W
R911	401C6689	R,CARBON 4.7K 5% 1/4W
R912	401K5737	R,CARBON 470K 5% 1/6W
R913	401K5697	R,CARBON 10K 5% 1/6W
R914	401K5713	R,CARBON 47K 5% 1/6W
R951	401K5697	R,CARBON 10K 5% 1/6W
R952	401K5697	R,CARBON 10K 5% 1/6W
R953	401K5723	R,CARBON 120K 5% 1/6W
R954	401K5713	R,CARBON 47K 5% 1/6W
R955	401K5709	R,CARBON 33K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R956	401K5673	R,CARBON 1.0K 5% 1/6W
R957	401K5673	R,CARBON 1.0K 5% 1/6W
R958	401K5715	R,CARBON 56K 5% 1/6W
R959	401K5737	R,CARBON 470K 5% 1/6W
R960	401K5715	R,CARBON 56K 5% 1/6W
R961	401K5721	R,CARBON 100K 5% 1/6W
R962	401K5709	R,CARBON 33K 5% 1/6W
R964	401K5699	R,CARBON 12K 5% 1/6W
R965	401K5685	R,CARBON 3.3K 5% 1/6W
R966	401K5649	R,CARBON 100H 5% 1/6W
R967	403F3209	R,METAL OXIDE 33K 5% 3W
R968	403F3209	R,METAL OXIDE 33K 5% 3W
R970	401K5647	R,CARBON 82H 5% 1/6W
R971	401K5679	R,CARBON 1.8K 5% 1/6W
R974	401H5731	R,CARBON 270K 5% 1/2W
R975	401H5731	R,CARBON 270K 5% 1/2W
R976	401K5705	R,CARBON 22K 5% 1/6W
R978	401K5705	R,CARBON 22K 5% 1/6W
R979	401K5697	R,CARBON 10K 5% 1/6W
R980	401K5713	R,CARBON 47K 5% 1/6W
R981	401K5707	R,CARBON 27K 5% 1/6W
R982	401K5697	R,CARBON 10K 5% 1/6W
R983	401K5681	R,CARBON 2.2K 5% 1/6W
R984	401K5697	R,CARBON 10K 5% 1/6W
R985	401H5677	R,CARBON 1.5K 5% 1/2W
R986	401K5721	R,CARBON 100K 5% 1/6W
R987	401K5697	R,CARBON 10K 5% 1/6W
R989	401K5707	R,CARBON 27K 5% 1/6W

*** CAPACITORS ***

C200P	421D6013	C,CERAMIC 50V 0.1UF
⚠C2002	430B6041	C,ELEC 25V 47UF
⚠C2004	430B6029	C,ELEC 16V 100UF
⚠C2005	430B5029	C,ELEC 15V 100UF
⚠C2008	430B6066	C,ELEC 50V 22UF
C2021	421D6013	C,CERAMIC 50V 0.1UF
C2101	430B9066	C,ELEC 50V 22UF
C401	421C0213	C,CERAMIC 50V 1000PF
C402	428B3021	C,METAL FILM 50V 0.47UF
C405	430B9071	C,ELEC 50V 330UF

SYMBOL	PARTS NO	DESCRIPTION
C406	421D6013	C,CERAMIC 50V 0.1UF
C407	430B9070	C,ELEC 50V 220UF
C408	430B9051	C,ELEC 50V 1.0UF
C409	428D4317	C,METAL FILM 100V 0.22UF
C410	4303D183	C,ELEC 50V 1000UF
C411	430B9054	C,ELEC 35V 100UF
C412	427F4015	C,FILM 50V 0.015UF
C441	428B3013	C,METAL FILM 50V 0.1UF
C442	428B3013	C,METAL FILM 50V 0.1UF
C451	421A0425	C,CERAMIC 50V 0.01UF
C461	430B6054	C,ELEC 35V 100UF
C462	430B6065	C,ELEC 50V 10UF
C47P	421D6013	C,CERAMIC 50V 0.1UF
C471	421D6013	C,CERAMIC 50V 0.1UF
C472	430B6041	C,ELEC 25V 47UF
C481	420C9563	C,CERAMIC 500V 1000PF
C482	430B6536	C,ELEC 200V 10UF
C491	430C9154	C,ELEC 350V 3.3UF
C5A1	430B6041	C,ELEC 25V 47UF
C5A2	427J9112	C,FILM 50V 1000PF
C5A3	427J9112	C,FILM 50V 1000PF
C5A4	430B9041	C,ELEC 25V 47UF
C5A5	421D6013	C,CERAMIC 50V 0.1UF
C5A6	42817102	C,METAL FILM 2.0KV 1900PF
C5A8	428JJ115	C,METAL 1000V 0.047UF
C5A9	4303J222	C,ELEC 250V 2.2UF
C5C0	430B6066	C,ELEC 50V 22UF
C5D1	42703455	C,FILM 630V 2200PF
C5D2	427F4059	C,FILM 50V 4700PF
C5D3	428B3021	C,METAL FILM 50V 0.47UF
C5EA	427F4013	C,FILM 50V 0.01UF
C5EC	433A7013	C,ELEC 16V 47UF
C5EP	421D6013	C,CERAMIC 50V 0.1UF
C5E0	430B6065	C,ELEC 50V 10UF
C5E2	423A2037	C,CERAMIC 50V 47PF
C5E3	430B9065	C,ELEC 50V 10UF
C5E4	430B9066	C,ELEC 50V 22UF
C5E5	4309H106	C,ELEC 250V 22UF
C5E6	427F4013	C,FILM 50V 0.01UF

SYMBOL	PARTS NO	DESCRIPTION
⚠C5E7	430B9039	C,ELEC 25V 22UF
⚠C5E8	428CJ022	C,METAL FILM 250V 0.1UF
⚠C5E9	430B6068	C,ELEC 50V 47UF
⚠C5FI	430B6516	C,ELEC 160V 10UF
⚠C5GA	430B8180	C,ELEC 50V 22UF
C5GC	430B6066	C,ELEC 50V 22UF
C5GE	428CJ022	C,METAL FILM 250V 0.1UF
C5GG	423A2033	C,CERAMIC 50V 33PF
C5GI	421C0225	C,CERAMIC 50V 0.01UF
C5G2	427F4601	C,FILM 50V 1000PF
C5G3	423A1057	C,CERAMIC 50V 330PF
C5G4	430B9066	C,ELEC 50V 22UF
C5G5	423A1101	C,CERAMIC 50V 470PF
C5G6	427F4021	C,FILM 50V 0.047UF
C5G7	430B9552	C,ELEC 250V 1.0UF
C5G8	420C9563	C,CERAMIC 500V 1000PF
C5G9	430B6039	C,ELEC 25V 22UF
C5HD	430B6064	C,ELEC 50V 4.7UF
C5H1	430B6064	C,ELEC 50V 4.7UF
C5H2	430B6065	C,ELEC 50V 10UF
C5H6	4303J224	C,ELEC 250V 4.7UF
C5H7	427F4621	C,FILM 50V 0.047UF
C5H8	427F4621	C,FILM 50V 0.047UF
C5H9	4309H105	C,ELEC 200V 4.7UF
⚠C5MC	433A4025	C,ELEC 16V 47UF
C5MC	423A1101	C,CERAMIC 50V 470PF
C5M1	430B9065	C,ELEC 50V 22UF
C5M2	427F4025	C,FILM 50V 0.1UF
C5M4	427F4621	C,FILM 50V 0.047UF
C5M5	423A2103	C,CERAMIC 50V 180PF
C5M6	4303J222	C,ELEC 250V 2.2UF
C5M7	430B6065	C,ELEC 50V 10UF
C5M8	427F4621	C,FILM 50V 0.047UF
C5M9	4303J222	C,ELEC 250V 2.2UF
C5R1	421C0205	C,CERAMIC 50V 220PF
C5S1	421D6009	C,CERAMIC 25V 0.1UF
C5S2	430B6063	C,ELEC 50V 3.3UF
C5S3	433A3033	C,ELEC 25V 10UF
C5S4	430B6041	C,ELEC 25V 47UF

SYMBOL	PARTS NO	DESCRIPTION
C530	421A0425	C,CERAMIC 50V 0.01UF
C549	423A2045	C,CERAMIC 50V 100PF
C56A	421D6013	C,CERAMIC 50V 0.1UF
C56C	421D6013	C,CERAMIC 50V 0.1UF
C57A	421A0425	C,CERAMIC 50V 0.01UF
C57C	430B6041	C,ELEC 25V 47UF
C57P	421D6013	C,CERAMIC 50V 0.1UF
C571	430B6069	C,ELEC 50V 100UF
C572	430B6066	C,ELEC 50V 22UF
C574	420C9567	C,CERAMIC 500V 2200PF
⚠C577	427C3575	C,FILM 200V 0.1UF
C578	427F4651	C,FILM 50V 1000PF
⚠C581	428F7101	C,METAL 1600V 1500PF
⚠C582	428F7201	C,METAL 1600V 5200PF
C583	431B8002	C,ELEC 200V 47UF
⚠C59A	428B9602	C,METAL 400V 0.12UF
⚠C59C	428B9707	C,METAL 400V 0.27UF 5%
C59E	421D6009	C,CERAMIC 25V 0.1UF
C59F	421D6009	C,CERAMIC 25V 0.1UF
C59G	421D6009	C,CERAMIC 25V 0.1UF
C59H	421D6009	C,CERAMIC 25V 0.1UF
C59K	421D6009	C,CERAMIC 25V 0.1UF
⚠C59L	430B9552	C,ELEC 250V 1.0UF
C59M	421D6009	C,CERAMIC 25V 0.1UF
C59N	427F4613	C,FILM 50V 0.01UF
C590	430B6096	C,ELEC 100V 3.3UF
⚠C591	420C9563	C,CERAMIC 500V 1000PF
⚠C592	420C9563	C,CERAMIC 500V 1000PF
⚠C593	420C9563	C,CERAMIC 500V 1000PF
⚠C595	428B9631	C,METAL FILM 400V 0.6UF
⚠C596	428B9631	C,METAL FILM 400V 0.6UF
⚠C597	428B9615	C,METAL 400V 0.68UF 5%
⚠C598	428B9606	C,METAL 400V 0.24UF
⚠C599	428B9601	C,METAL 400V 0.1UF
C601	428B8001	C,FILM AC250V 0.22UF
C602	428B9098	C,FILM 250V 0.1UF
C603	420B3013	C,CERAMIC 400V 1000PF
C604	420B3013	C,CERAMIC 400V 1000PF
C605	431B8001	C,ELEC 200V 1200UF

SYMBOL	PARTS NO	DESCRIPTION
C5S5	430B6041	C,ELEC 25V 47UF
C5S6	430B6030	C,ELEC 16V 220UF
C5S7	430B6030	C,ELEC 16V 220UF
C5S8	421D6009	C,CERAMIC 25V 0.1UF
C5S9	421D6009	C,CERAMIC 25V 0.1UF
C5T0	421D6009	C,CERAMIC 25V 0.1UF
C5T1	421D6009	C,CERAMIC 25V 0.1UF
C5T2	421D6009	C,CERAMIC 25V 0.1UF
C5X0	421D6009	C,CERAMIC 25V 0.1UF
C5X1	421J9036	C,CERAMIC 25V 0.1UF
C5X2	430B6041	C,ELEC 25V 47UF
C5X3	430B6064	C,ELEC 50V 4.7UF
C50A	421D6013	C,CERAMIC 50V 0.1UF
C50C	428B3025	C,METAL FILM 50V 1.0UF
C50R	421D6013	C,CERAMIC 50V 0.1UF
C50S	421D6013	C,CERAMIC 50V 0.1UF
C500	427F4013	C,FILM 50V 0.01UF
C501	430B6064	C,ELEC 50V 4.7UF
C502	423A2103	C,CERAMIC 50V 180PF
C503	430B9017	C,ELEC 10V 220UF
C504	421D6009	C,CERAMIC 25V 0.1UF
C506	423A2033	C,CERAMIC 50V 33PF
C507	421D6013	C,CERAMIC 50V 0.1UF
C508	430B6030	C,ELEC 16V 220UF
C509	423A1045	C,CERAMIC 50V 100PF
C51C	421D6013	C,CERAMIC 50V 0.1UF
C51P	421D6013	C,CERAMIC 50V 0.1UF
C510	423A2103	C,CERAMIC 50V 180PF
C511	423A2105	C,CERAMIC 50V 270PF
C512	427F4651	C,FILM 50V 1000PF
C513	427F4603	C,FILM 50V 1500PF
C514	435A8307	C,TANTALUM 35V 1.0UF
C515	427A7005	C,FILM 100V 0.0022UF
C516	427F4014	C,FILM 50V 0.012UF
C517	430B6061	C,ELEC 50V 1.0UF
C518	421A0425	C,CERAMIC 50V 0.01UF
C520	427F4610	C,FILM 50V 5600PF
C521	421A0425	C,CERAMIC 50V 0.01UF
C529	423A2045	C,CERAMIC 50V 100PF

SYMBOL	PARTS NO	DESCRIPTION
C606	428B3013	C,METAL FILM 50V 0.1UF
C607	420B9096	C,CERAMIC 2KV 470PF
C609	420E0067	C,CERAMIC 400V 2200PF
C610	428B9022	C,METAL FILM 250V 0.1UF
C611	420B9088	C,CERAMIC 2KV 220PF
C612	430B9065	C,ELEC 50V 10UF
C613	428B3101	C,METAL FILM 50V 0.01UF
C614	420B9096	C,CERAMIC 2KV 470PF
C615	430B9065	C,ELEC 50V 10UF
C616	423A1100	C,CERAMIC 50V 390PF
C618	420B9088	C,CERAMIC 2KV 220PF
C619	428B9098	C,FILM 250V 0.1UF
C651	420B9095	C,CERAMIC 2KV 330PF
C652	4302J105	C,ELEC 100V 470UF
C653	4302J559	C,ELEC 250V 47UF
C654	428B9001	C,METAL FILM 100V 0.01UF
C655	420B9095	C,CERAMIC 2KV 330PF
C656	4304A013	C,ELEC 160V 100UF
C657	4304A013	C,ELEC 160V 100UF
C658	420B9086	C,CERAMIC 2KV 1000PF
C659	4302J059	C,ELEC 35V 2200UF
C660	430B9057	C,ELEC 35V 470UF
C661	427F4624	C,FILM 50V 0.082UF
C662	428B3013	C,METAL FILM 50V 0.1UF
C663	4302J059	C,ELEC 35V 2200UF
C664	427B9057	C,FILM 100V 3300PF
C665	430B9053	C,ELEC 35V 47UF
C666	428B0053	C,METAL 100V 0.1UF
C667	428B0053	C,METAL 100V 0.1UF
C669	4304A013	C,ELEC 160V 100UF
C7A0	428B0097	C,FILM 250V 0.22UF
C7A1	428B0097	C,FILM 250V 0.22UF
C7A2	428B0097	C,FILM 250V 0.22UF
C7A3	430B9512	C,ELEC 160V 1.0UF
C7A4	430B9512	C,ELEC 160V 1.0UF
C7A5	430B9512	C,ELEC 160V 1.0UF
C7A6	420C9563	C,CERAMIC 500V 1000PF
C7A7	420C9563	C,CERAMIC 500V 1000PF
C7A8	420C9563	C,CERAMIC 500V 1000PF
C7C0	433A6045	C,ELEC 16V 22UF

SYMBOL	PARTS NO	DESCRIPTION
C7C1	433A6045	C,ELEC 16V 22UF
C7C2	433A6045	C,ELEC 16V 22UF
C7C3	433A6045	C,ELEC 16V 22UF
C7C4	433A6045	C,ELEC 16V 22UF
C7C5	433A6045	C,ELEC 16V 22UF
C7C6	430BJ518	C,ELEC 160V 33UF
C7D1	423A2015	C,CERAMIC 50V 10PF
C7D2	423A2015	C,CERAMIC 50V 10PF
C7D3	423A2015	C,CERAMIC 50V 10PF
C7D4	421C0225	C,CERAMIC 50V 0.01UF
C7D5	421C0225	C,CERAMIC 50V 0.01UF
C7D6	421C0225	C,CERAMIC 50V 0.01UF
C7D7	430B9552	C,ELEC 250V 1.0UF
C7E0	430B6065	C,ELEC 50V 10UF
C7E1	430B6065	C,ELEC 50V 10UF
C7E2	430B6065	C,ELEC 50V 10UF
C7E5	421D6009	C,CERAMIC 25V 0.1UF
C7E6	421D6009	C,CERAMIC 25V 0.1UF
C7E7	421D6009	C,CERAMIC 25V 0.1UF
C7E8	421D6009	C,CERAMIC 25V 0.1UF
C7E9	420C9569	C,CERAMIC 50V 3300PF
C7F0	421D6009	C,CERAMIC 25V 0.1UF
C7F1	421D6009	C,CERAMIC 25V 0.1UF
C7F2	421D6009	C,CERAMIC 25V 0.1UF
C7G1	433A6045	C,ELEC 16V 22UF
C7G2	433A6045	C,ELEC 16V 22UF
C7G3	433A6045	C,ELEC 16V 22UF
C7G4	433A6045	C,ELEC 16V 22UF
C7G5	433A6045	C,ELEC 16V 22UF
C7G6	433A6045	C,ELEC 16V 22UF
C7G7	421C0225	C,CERAMIC 50V 0.01UF
C7G8	421C0225	C,CERAMIC 50V 0.01UF
C7G9	421C0225	C,CERAMIC 50V 0.01UF
C7H0	421C0225	C,CERAMIC 50V 0.01UF
C7H1	421C0225	C,CERAMIC 50V 0.01UF
C7H2	421C0225	C,CERAMIC 50V 0.01UF
C7H3	430B8144	C,ELEC 16V 47UF
C7H4	421D6009	C,CERAMIC 25V 0.1UF
C7H5	430B8144	C,ELEC 16V 47UF
C7H6	421D6009	C,CERAMIC 25V 0.1UF

SYMBOL	PARTS NO	DESCRIPTION
C717	423A1045	C,CERAMIC 50V 100PF
C718	421C0225	C,CERAMIC 50V 0.01UF
C719	421C0225	C,CERAMIC 50V 0.01UF
C720	421C0225	C,CERAMIC 50V 0.01UF
C722	430B6041	C,ELEC 25V 47UF
C724	430B6032	C,ELEC 16V 470UF
C725	430B6032	C,ELEC 16V 470UF
C726	430B6032	C,ELEC 16V 470UF
C727	430B6065	C,ELEC 50V 10UF
C728	430B6065	C,ELEC 50V 10UF
C729	430B6065	C,ELEC 50V 10UF
C730	430B6065	C,ELEC 50V 10UF
C731	430B6065	C,ELEC 50V 10UF
C732	430B6065	C,ELEC 50V 10UF
C733	430B6029	C,ELEC 16V 100UF
C734	430B6029	C,ELEC 16V 100UF
C735	430B6029	C,ELEC 16V 100UF
C736	430B6032	C,ELEC 16V 470UF
C737	421C0219	C,CERAMIC 50V 3300PF
C738	421C0219	C,CERAMIC 50V 3300PF
C739	421C0219	C,CERAMIC 50V 3300PF
C741	430B6041	C,ELEC 25V 47UF
C750	430B9032	C,ELEC 16V 470UF
C751	430B9032	C,ELEC 16V 470UF
C752	430B9032	C,ELEC 16V 470UF
C753	421D6009	C,CERAMIC 25V 0.1UF
C754	421D6009	C,CERAMIC 25V 0.1UF
C755	421D6009	C,CERAMIC 25V 0.1UF
C756	430B6065	C,ELEC 50V 10UF
C757	430B6065	C,ELEC 50V 10UF
C758	430B6065	C,ELEC 50V 10UF
C759	421C0225	C,CERAMIC 50V 0.01UF
C760	421C0225	C,CERAMIC 50V 0.01UF
C761	421C0225	C,CERAMIC 50V 0.01UF
C762	421C0213	C,CERAMIC 50V 1000PF
C763	421C0213	C,CERAMIC 50V 1000PF
C764	421C0213	C,CERAMIC 50V 1000PF
C765	430B9026	C,ELEC 16V 22UF
C766	430B9026	C,ELEC 16V 22UF
C767	430B9025	C,ELEC 16V 22UF

SYMBOL	PARTS NO	DESCRIPTION
C768	421C0225	C,CERAMIC 50V 0.01UF
C769	421C0225	C,CERAMIC 50V 0.01UF
C770	421C0225	C,CERAMIC 50V 0.01UF
C771	430B3104	C,ELEC 50V 3.3UF
C772	430B3104	C,ELEC 50V 3.3UF
C773	430B3104	C,ELEC 50V 3.3UF
C774	430C8423	C,ELEC 16V 470UF
C775	430C8423	C,ELEC 16V 470UF
C776	430C8423	C,ELEC 16V 470UF
C777	421C0213	C,CERAMIC 50V 1000PF
C778	421C0213	C,CERAMIC 50V 1000PF
C779	421C0213	C,CERAMIC 50V 1000PF
C780	430B6041	C,ELEC 25V 47UF
C781	423A2041	C,CERAMIC 50V 68PF
C782	423A2041	C,CERAMIC 50V 68PF
C783	423A2041	C,CERAMIC 50V 68PF
C784	421C0225	C,CERAMIC 50V 0.01UF
C785	421C0225	C,CERAMIC 50V 0.01UF
C786	421C0225	C,CERAMIC 50V 0.01UF
C787	423A2035	C,CERAMIC 50V 39PF
C788	423A2035	C,CERAMIC 50V 39PF
C789	423A2035	C,CERAMIC 50V 39PF
C790	421C0225	C,CERAMIC 50V 0.01UF
C791	421C0225	C,CERAMIC 50V 0.01UF
C792	421C0225	C,CERAMIC 50V 0.01UF
C793	430B9513	C,ELEC 160V 2.2UF
C794	430B9513	C,ELEC 160V 2.2UF
C795	430B9513	C,ELEC 160V 2.2UF
C796	420C9569	C,CERAMIC 50V 3300PF
C797	420C9569	C,CERAMIC 50V 3300PF
C798	420C9569	C,CERAMIC 50V 3300PF
C8A1	423A1028	C,CERAMIC 50V 20PF
C8A2	428B3025	C,METAL FILM 50V 1.0UF
C8A3	43032175	C,ELEC 50V 220UF
C8A4	43032175	C,ELEC 50V 220UF
C8A5	427F4013	C,FILM 50V 0.01UF
C8A6	427F4004	C,FILM 50V 1800PF
C8A7	427F4009	C,FILM 50V 4700PF
C8A8	421D6009	C,CERAMIC 25V 0.1UF
C8A9	421C0213	C,CERAMIC 50V 1000PF

SYMBOL	PARTS NO	DESCRIPTION
C8C1	430C2105	C,ELEC 25V 470UF
C8C2	430C2105	C,ELEC 25V 470UF
C8C3	430B9031	C,ELEC 16V 330UF
C8C4	432K6011	C,ELEC 10V 220UF
C8C5	430J8109	C,ELEC 16V 47UF
C8C7	421D6013	C,CERAMIC 50V 0.1UF
C8C8	421D6013	C,CERAMIC 50V 0.1UF
C8C9	430B9017	C,ELEC 10V 220UF
C8D0	427F4605	C,FILM 50V 2200PF
C8D1	428B3025	C,METAL FILM 50V 1.0UF
C8F0	432K6208	C,ELEC 63V 33UF
C8G0	428B3013	C,METAL FILM 50V 0.1UF
C8G1	433A4056	C,ELEC 50V 22UF
C8G2	428B3013	C,METAL FILM 50V 0.1UF
C8G3	433A4056	C,ELEC 50V 22UF
C8G4	430B6065	C,ELEC 50V 10UF
C8G8	430B6064	C,ELEC 50V 4.7UF
C8G9	423A1057	C,CERAMIC 50V 330PF
C8H0	427F4009	C,FILM 50V 4700PF
C8H1	433A4056	C,ELEC 50V 22UF
C8H2	430B6064	C,ELEC 50V 4.7UF
C8H3	430B6221	C,ELEC 50V 0.1UF
C8H4	433A3058	C,ELEC 50V 4.7UF
C8H5	430B6065	C,ELEC 50V 10UF
C8H6	430B6064	C,ELEC 50V 4.7UF
C8H7	421D6009	C,CERAMIC 25V 0.1UF
C8H8	430B6041	C,ELEC 25V 47UF
C8H9	430B6061	C,ELEC 50V 1.0UF
C8K0	423A1057	C,CERAMIC 50V 330PF
C8K1	423A1057	C,CERAMIC 50V 330PF
C8K2	423A1057	C,CERAMIC 50V 330PF
C8K3	421D6009	C,CERAMIC 25V 0.1UF
C8K4	421D6009	C,CERAMIC 25V 0.1UF
C8K5	423A1101	C,CERAMIC 50V 470PF
C8K6	430B6065	C,ELEC 50V 10UF
C8K7	421D6009	C,CERAMIC 25V 0.1UF
C8K8	421D6009	C,CERAMIC 25V 0.1UF
C8K9	421D6009	C,CERAMIC 25V 0.1UF
C8L0	430B6060	C,ELEC 50V 0.47UF
C801	430B6017	C,ELEC 10V 220UF

SYMBOL	PARTS NO	DESCRIPTION
C802	421D6009	C,CERAMIC 25V 0.1UF
C803	43088152	C,ELEC 25V 10UF
C804	423A2015	C,CERAMIC 50V 10PF
C805	423A2015	C,CERAMIC 50V 10PF
C810	421A0425	C,CERAMIC 50V 0.01UF
C811	421A0425	C,CERAMIC 50V 0.01UF
C820	423A2025	C,CERAMIC 50V 15PF
C826	421D6009	C,CERAMIC 25V 0.1UF
C827	421D6009	C,CERAMIC 25V 0.1UF
C829	421D6009	C,CERAMIC 25V 0.1UF
C830	421D6009	C,CERAMIC 25V 0.1UF
C831	43089017	C,ELEC 10V 220UF
C832	430C0253	C,ELEC 25V 22UF
C833	43088135	C,ELEC 10V 220UF
C834	421D6009	C,CERAMIC 25V 0.1UF
C835	421D6009	C,CERAMIC 25V 0.1UF
C86A	421C3461	C,CERAMIC 16V 0.01UF
C86C	421C3461	C,CERAMIC 16V 0.01UF
C861	43089025	C,ELEC 16V 10UF
C862	43089041	C,ELEC 25V 47UF
C863	43089016	C,ELEC 10V 100UF
C864	421D6009	C,CERAMIC 25V 0.1UF
C865	421D6009	C,CERAMIC 25V 0.1UF
C866	433A7031	C,ELEC 35V 4.7UF
C867	421C0213	C,CERAMIC 50V 1000PF
C868	421D6009	C,CERAMIC 25V 0.1UF
C869	421D6009	C,CERAMIC 25V 0.1UF
C870	421D6009	C,CERAMIC 25V 0.1UF
C871	43086065	C,ELEC 50V 10UF
C901	4203J575	C,CERAMIC 500V 0.01UF
C903	42009551	C,CERAMIC 500V 100PF
C904	42009563	C,CERAMIC 500V 1000PF
C905	42040108	C,CERAMIC 2KV 0.01UF
C907	428C0097	C,FILM 250V 0.22UF
C951	427F4013	C,FILM 50V 0.01UF
C952	43089028	C,ELEC 16V 47UF
C953	43089028	C,ELEC 16V 47UF
C955	427F4675	C,FILM 50V 0.1UF
C956	427F4675	C,FILM 50V 0.1UF
C957	427F4013	C,FILM 50V 0.01UF

SYMBOL	PARTS NO	DESCRIPTION
C958	421D6009	C,CERAMIC 25V 0.1UF
C959	423A1103	C,CERAMIC 50V 560PF
C960	42308501	C,METAL FILM 1.5KV 1000PF
C961	43089028	C,ELEC 16V 47UF
C962	423A1101	C,CERAMIC 50V 470PF
C963	427F4675	C,FILM 50V 0.1UF
C964	428JJ115	C,METAL 1000V 0.047UF
C965	421D6009	C,CERAMIC 25V 0.1UF
C966	423A2045	C,CERAMIC 50V 100PF
C967	43089025	C,ELEC 16V 10UF
C968	43089025	C,ELEC 16V 10UF
C969	430B6029	C,ELEC 16V 100UF

REPLACEMENT PARTS LIST

The components specified Model JC-1741UMB/R/B (EE)

Note: The components identified by ⚠ make are critical for safety.
Replace only with parts Number specified.

SYMBOL	PARTS NO	DESCRIPTION
		* * * CRT & TUNER * * *
⚠ CRT UMB UMB(EE)	33017502	CRT AF17G9SLB22-E-RC06
⚠ CRT UMR	33017503	CRT AF17G9SLB22-E-TC06R
		*** ICS ***
⚠ IC2001	37011132	IC UPC4082C (OP-AMP)
⚠ IC2002	37011132	IC UPC4082C (OP-AMP)
IC401	37056887	IC TDA1675A
IC402	37011024	IC UPC3403C (OP-AMP)
IC431	37051035	MOS UPD4066BC
IC471	37011206	IC XRA10358 (OP-AMP)
IC5A1	37053390	MOS HD74HC123AP
⚠ IC5E1	370A1009	IC UPC1093J-T (REG)
⚠ IC5E2	37011262	IC XRA10393 (COMP)
IC5G0	37011262	IC XRA10393 (COMP)
IC5G1	37011024	IC UPC3403C (OP-AMP)
IC5S1	37056618	IC BA6110
IC5S2	37011206	IC XRA10358 (OP-AMP)
IC5S3	37011210	IC XRA10324 (Q OP-AMP)
IC5S4	37011210	IC XRA10324 (Q OP-AMP)
IC5S5	37056877	IC NJM4200D (MULTIPLIER)
⚠ IC501	37055295	IC LA7851
IC502	37051179	IC SN74LS123N (MONO MLT)
IC503	37011018	IC UPC311C (COMP)
IC504	37011210	IC XRA10324 (Q OP-AMP)
IC5C5	37051036	MOS UPD4066BC
IC506	37011205	IC XRA10358 (OP-AMP)
IC509	37011206	IC XRA10358 (OP-AMP)
IC510	37101543	IC XRA10339
IC511	37101543	IC XRA10339
IC571	37056885	IC NJM3404AD
IC601	37056810	IC M67297 (SW.REG CONT)
IC701	37056814	IC M52035P
IC702	37056433	IC M51399P
IC703	37056433	IC M51399P
IC704	37056433	IC M51399P
IC705	37056905	IC VPA12H
IC706	37056905	IC VPA12H
IC707	37056905	IC VPA12H
IC8A1	37056885	IC NJM3404AD

SYMBOL	PARTS NO	DESCRIPTION
IC8A2	37011262	IC XRA10393 (COMP)
IC8G0	37011018	IC UPC311C (COMP)
IC8G1	37011262	IC XRA10393 (COMP)
IC8G2	37011018	IC UPC311C (COMP)
IC8G3	37056867	IC M52036SP
IC8G4	37051179	IC SN74LS123N (MONO MLT)
IC8G5	37051096	IC SN74LS367AN (BUFF)
IC801	37056915	IC UPD78C12AGQ-A66-36
IC802	37055813	IC M62359P
IC803	37051042	MOS UPD4028BC (BCD DECI)
IC804	37055401	MOS XRM93C56B-E
IC805	37053036	MOS SN74HC32N (OR)
IC806	37011210	IC XRA10324 (Q OP-AMP)
IC807	37011210	IC XRA10324 (Q OP-AMP)
IC808	37011210	IC XRA10324 (Q OP-AMP)
IC809	37011206	IC XRA10358 (OP-AMP)
IC810	37011206	IC XRA10358 (OP-AMP)
IC811	370E6005	IC PST518A
IC860	37056812	IC M62362P
IC861	37056812	IC M62362P
IC862	37011210	IC XRA10324 (Q OP-AMP)
IC863	37011206	IC XRA10358 (OP-AMP)
IC864	37011210	IC XRA10324 (Q OP-AMP)
IC951	37011206	IC XRA10358 (OP-AMP)
IC952	37056618	IC BA6110
		*** TRANSISTORS ***
CR601	35595015	TRIAC AC10FGM
⚠ Q2001	350K4518	TR 2SA933-T R
⚠ Q2002	350E3218	TR 2SC1740S-T R
⚠ Q2005	351G0601	TR DTC114ES-T
⚠ Q2006	351G0601	TR DTC114ES-T
Q2101	351G0655	TR DTC143ES-TP
Q421	350E3218	TR 2SC1740S-T R
Q422	351A0690	TR DTC115ES-TP
Q423	351A0590	TR DTC115ES-TP
Q424	351A0690	TR DTC115ES-TP
Q425	351A0690	TR DTC115ES-TP
Q451	35025211	TR 2SB546 K

SYMBOL	PARTS NO	DESCRIPTION
Q452	35063411	TR,2SD401A K
Q461	35065416	TR,2SD882 P
Q462	350E3218	TR 2SC1740S-T R
Q471	35065416	TR,2SD882 P
Q481	35056311	TR 2SC2688 K
Q482	35058905	TR,2SC1841 E
Q5A1	350H5018	TR,2SC3811-TA R
Q5A2	35050918	TR 2SC1384 R
Q5A3	350K4412	TR 2SA952 L,AT
⚠ Q5A4	35122800	TR 2SK1271
⚠ Q5A5	35122800	TR 2SK1271
⚠ Q5E0	351G0602	TR DTC144ES-T
⚠ Q5E1	35050918	TR 2SC1384 R
⚠ Q5E2	350K4411	TR 2SA952 K,AT
⚠ Q5E3	35126900	TR 2SK806
⚠ Q5E4	351G0553	TR DTA143ES-T
Q5G0	351G0601	TR DTC114ES-T
Q5G1	350K5718	TR 2SA933S-T R
Q5G2	350E3218	TR 2SC1740S-T R
Q5G3	350K5718	TR 2SA933S-T R
Q5G4	350E3218	TR 2SC1740S-T R
Q5G5	350K4518	TR 2SA933-T R
Q5G6	35122500	TR 2SK758
Q5M0	350K5718	TR 2SA933S-T R
Q5M1	350E3218	TR 2SC1740S-T R
Q5M2	350K4518	TR 2SA933-T R
Q5M3	35122500	TR 2SK758
⚠ Q5M4	350A1500	TR 2SA1767-TA
Q5R0	351G0601	TR DTC114ES-T
Q5R1	351G0655	TR DTC143ES-TP
Q5R2	350H5018	TR,2SC3811-TA R
Q5R3	350E3218	TR 2SC1740S-T R
Q5R4	350K4518	TR 2SA933-T R
Q5S1	350K5718	TR 2SA933S-T R
Q5CA	351G0602	TR DTC144ES-T
Q5C1	350K4518	TR 2SA933-T R
Q502	350H5018	TR,2SC3811-TA R
Q51A	351G0602	TR DTC144ES-T
Q52A	351G0602	TR DTC144ES-T

SYMBOL	PARTS NO	DESCRIPTION
Q53A	351G0602	TR DTC144ES-T
Q54A	351G0602	TR DTC144ES-T
Q55A	351G0602	TR DTC144ES-T
Q56A	351G0550	TR DTA144WS-T
Q56C	351G0560	TR DTA144WS-T
Q56E	350K4518	TR 2SA933-T R
Q571	35025212	TR 2SB546 L
Q572	350E3218	TR 2SC1740S-T R
Q573	350K4518	TR 2SA933-T R
Q574	35122500	TR 2SK758
Q58A	351G0602	TR DTC144ES-T
⚠ Q581	35094300	TR 2SC3998
Q59A	351G0550	TR DTA144WS-T
Q59C	351G0602	TR DTC144ES-T
Q59E	351G0560	TR DTA144WS-T
Q59F	351G0602	TR DTC144ES-T
Q591	35125700	TR 2SK947
Q592	35125700	TR 2SK947
Q593	35125700	TR 2SK947
Q594	35125700	TR 2SK947
Q595	35125700	TR 2SK947
Q596	35125700	TR 2SK947
Q601	35125800	TR,2SK1342
Q651	35053012	TR 2SC1941 L
Q652	350E3218	TR 2SC1740S-T R
Q653	350E3218	TR 2SC1740S-T R
Q654	351G0653	TR DTC123ES-T
Q7C0	350H5017	TR,2SC3811-TA Q
Q701	350H1811	TR,2SC2901 K-T
Q702	350H1811	TR,2SC2901 K-T
Q703	350H1811	TR,2SC2901 K-T
Q704	350H1811	TR,2SC2901 K-T
Q705	350H1811	TR,2SC2901 K-T
Q706	350H1811	TR,2SC2901 K-T
Q707	351G0601	TR DTC114ES-T
Q708	351G0600	TR DTA114ES-T
Q709	351G0601	TR DTC114ES-T
Q710	350H1811	TR,2SC2901 K-T
Q711	350K5718	TR 2SA933S-T R
Q712	350K5718	TR 2SA933S-T R

SYMBOL	PARTS NO	DESCRIPTION
Q713	350K5718	TR 2SA933S-T R
Q714	350E3218	TR 2SC1740S-T R
Q715	350E3218	TR 2SC1740S-T R
Q716	350E3218	TR 2SC1740S-T R
Q717	351G0602	TR DTC144ES-T
Q718	351G0602	TR DTC144ES-T
Q719	351G0601	TR DTC114ES-T
Q723	35080200	TR 2SC2407/2407A
Q724	35080200	TR 2SC2407/2407A
Q725	35080200	TR 2SC2407/2407A
Q726	350H1811	TR,2SC2901 K-T
Q727	350H1811	TR,2SC2901 K-T
Q728	350H1811	TR,2SC2901 K-T
Q731	350H1811	TR,2SC2901 K-T
Q732	350K7500	TR 2SA1206-T
Q733	350H1811	TR,2SC2901 K-T
Q734	351G0601	TR DTC114ES-T
Q740	350H4417	TR,2SC1473-TA Q
Q741	350H4417	TR,2SC1473-TA Q
Q742	350H4417	TR,2SC1473-TA Q
Q743	350K5217	TR,2SA1018-TA Q
Q744	350K5217	TR,2SA1018-TA Q
Q745	350K5217	TR,2SA1018-TA Q
Q8A1	35065416	TR,2SD882 P
Q8A2	350E3218	TR 2SC1740S-T R
Q8A3	350K5718	TR 2SA933S-T R
Q8A4	350E3218	TR 2SC1740S-T R
Q8A5	351G0601	TR DTC114ES-T
Q8A6	350E3218	TR 2SC1740S-T R
Q8A7	350K5718	TR 2SA933S-T R
Q8A8	350E3218	TR 2SC1740S-T R
Q8A9	35122500	TR 2SK701
Q8C0	35065416	TR,2SD882 P
Q8G0	351G0600	TR DTA114ES-T
Q8G1	351G0600	TR DTA114ES-T
Q8G2	351G0601	TR DTC114ES-T
Q8G3	351G0602	TR DTC144ES-T
Q8G4	351G0601	TR DTC114ES-T
Q801	351G0541	TR DTC114YS-T
Q802	351G0601	TR DTC114ES-T

SYMBOL	PARTS NO	DESCRIPTION
Q803	351G0601	TR DTC114ES-T
Q804	351G0601	TR DTC114ES-T
Q805	351G0601	TR DTC114ES-T
Q806	350H5018	TR,2SC3811-TA R
Q807	350E3218	TR 2SC1740S-T R
Q860	35560416	TR 2SD794A P
Q861	350E3218	TR 2SC1740S-T R
Q862	350E3218	TR 2SC1740S-T R
Q863	350K5718	TR 2SA933S-T R
Q864	350K5718	TR 2SA933S-T R
Q951	350K5718	TR 2SA933S-T R
Q952	350E3218	TR 2SC1740S-T R
Q953	35094200	TR 2SC4572
Q954	350K4311	TR 2SA953-T K
Q955	35094200	TR 2SC4572
Q956	35011600	TR 2SA1831
Q957	350E3218	TR 2SC1740S-T R
Q958	35084600	TR,2SC3675

*** DIODES ***

D101	360K1027	DIODE 1SS132
D102	360K1027	DIODE 1SS132
D103	360K1027	DIODE 1SS132
D104	360K1027	DIODE 1SS132
D105	360K1027	DIODE 1SS132
D106	360K1027	DIODE 1SS132
D107	360K1027	DIODE 1SS132
D108	360K1027	DIODE 1SS132
D109	360K1027	DIODE 1SS132
D110	360K1027	DIODE 1SS132
D111	360K1027	DIODE 1SS132
D112	360K1027	DIODE 1SS132
D113	360K1027	DIODE 1SS132
D114	360K1027	DIODE 1SS132
D115	360K1027	DIODE 1SS132
D116	360K1027	DIODE 1SS132
D120	36801340	LED SLR-34MC3F
D121	36801343	LED SLA-570MT3F(XJ,XK,XL)
D122	36801343	LED SLA-570MT3F(XJ,XK,XL)
D2003	360K1027	DIODE 1SS132

SYMBOL	PARTS NO	DESCRIPTION
⚠D2006	360K1027	DIODE 1SS132
⚠D2008	360K1027	DIODE 1SS132
D2101	360K1027	DIODE 1SS132
D2102	360K1027	DIODE 1SS132
D2103	360K1027	DIODE 1SS132
D401	360K1027	DIODE 1SS132
D402	369K2136	DIODE RGP10G,AT
D481	369K2136	DIODE RGP10G,AT
D482	360K1032	DIODE 1SS82-TA
D491	360K1032	DIODE 1SS82-TA
D5A0	360K1027	DIODE 1SS132
D5A1	360K1027	DIODE 1SS132
⚠D5A2	361K7312	DIODE EP01C-V
D5A3	360K1027	DIODE 1SS132
⚠D5D1	36107541	DIODE EG01A
⚠D5E1	360K1027	DIODE 1SS132
⚠D5E2	361K7562	DIODE EGP10G G23
⚠D5E3	36107541	DIODE EG01A
⚠D5E4	361K7562	DIODE EGP10G G23
D5G0	360K1027	DIODE 1SS132
D5G1	360K1027	DIODE 1SS132
D5G2	360K1027	DIODE 1SS132
D5G3	369K2136	DIODE RGP10G,AT
D5G4	360K1027	DIODE 1SS132
D5G5	360K1027	DIODE 1SS132
D5G6	360K1027	DIODE 1SS132
D5G7	36107538	DIODE EGP30G
D5G8	369K2136	DIODE RGP10G,AT
D5M0	360K1027	DIODE 1SS132
D5M2	360K1027	DIODE 1SS132
D5M3	360K1027	DIODE 1SS132
D5M4	360K1027	DIODE 1SS132
D5M5	361K7537	DIODE EGP20G G23
D5R1	360K1027	DIODE 1SS132
D501	360K1027	DIODE 1SS132
D502	360K1027	DIODE 1SS132
⚠D572	361K7562	DIODE EGP10G G23
D573	36107293	DIODE RK14
D574	36107293	DIODE RK14

SYMBOL	PARTS NO	DESCRIPTION
⚠D582	36108238	DIODE FMP-G3FS
⚠D583	36107560	DIODE RG2A2
⚠D584	36107560	DIODE RG2A2
D590	361K7562	DIODE EGP10G G23
D591	360K1027	DIODE 1SS132
D592	360K1027	DIODE 1SS132
D601	36108201	DIODE,NETWORK D5SBA60S
D602	361K7303	DIODE EU02 V1
D603	36107174	DIODE RU1P
D604	361K7322	DIODE EL1Z-T
D605	360K1010	DIODE,SI 1S2472
D651	36107320	DIODE FMG-G25S
D652	36107320	DIODE FMG-G25S
D653	36108072	D,NETWORK D5LCA20
D654	360K1027	DIODE 1SS132
D655	360K1027	DIODE 1SS132
D656	36107178	DIODE RU3
D7G0	360K1027	DIODE 1SS132
D701	360K1027	DIODE 1SS132
D702	360K1027	DIODE 1SS132
D703	360K1027	DIODE 1SS132
D704	360K1027	DIODE 1SS132
D705	360K1027	DIODE 1SS132
D706	360K1027	DIODE 1SS132
D707	360K1027	DIODE 1SS132
D708	360K1027	DIODE 1SS132
D709	360K1027	DIODE 1SS132
D710	360K1027	DIODE 1SS132
D711	360K1027	DIODE 1SS132
D712	360K1027	DIODE 1SS132
D713	360K1027	DIODE 1SS132
D714	360K1027	DIODE 1SS132
D715	360K1027	DIODE 1SS132
D716	360K1027	DIODE 1SS132
D717	360K1027	DIODE 1SS132
D718	360K1027	DIODE 1SS132
D719	360K1027	DIODE 1SS132
D720	360K1027	DIODE 1SS132
D721	360K1027	DIODE 1SS132

SYMBOL	PARTS NO	DESCRIPTION
D722	360K1027	DIODE 1SS132
D723	360K1027	DIODE 1SS132
D725	360K1027	DIODE 1SS132
D726	360K1027	DIODE 1SS132
D727	360K1027	DIODE 1SS132
D728	360K1027	DIODE 1SS132
D729	360K1027	DIODE 1SS132
D730	360K1027	DIODE 1SS132
D731	369K2136	DIODE RGP10G,AT
D732	369K2136	DIODE RGP10G,AT
D755	360K1032	DIODE 1SS82-TA
D756	360K1032	DIODE 1SS82-TA
D757	360K1032	DIODE 1SS82-TA
D758	360K1032	DIODE 1SS82-TA
D759	360K1032	DIODE 1SS82-TA
D760	360K1032	DIODE 1SS82-TA
D761	360K1032	DIODE 1SS82-TA
D762	360K1032	DIODE 1SS82-TA
D763	360K1032	DIODE 1SS82-TA
D8A1	360K1027	DIODE 1SS132
D8A2	360K1027	DIODE 1SS132
D8A3	360K1027	DIODE 1SS132
D8A4	360K1027	DIODE 1SS132
D8A5	360K1027	DIODE 1SS132
D8A6	360K1027	DIODE 1SS132
D8A7	36107293	DIODE RK14
D8A9	361K7562	DIODE EGP10G G23
D8C0	361K7562	DIODE EGP10G G23
D8C3	369K2136	DIODE RGP10G,AT
D8C4	369K2136	DIODE RGP10G,AT
D8G0	360K1027	DIODE 1SS132
D8G1	360K1027	DIODE 1SS132
D8G2	360K1027	DIODE 1SS132
D8G3	360K1027	DIODE 1SS132
D8G4	360K1027	DIODE 1SS132
D8G5	360K1027	DIODE 1SS132
D8G6	360K1027	DIODE 1SS132
D8G7	360K1027	DIODE 1SS132
D8G8	360K1027	DIODE 1SS132

SYMBOL	PARTS NO	DESCRIPTION
⚠ZD5E4	360K3675	DIODE RD13ESB(2)-T4
ZD5G0	360K3654	DIODE RD8.2ESB(1)-T4
ZD5G1	360K3658	DIODE RD9.1ESB(1)-T4
ZD5G2	360K3624	DIODE RD3.9ESB(2)-T4
ZD5G3	360K3656	DIODE RD8.2ESB(3)-T4
ZD5R1	360K3145	DIODE RD27EB-T4
ZD5R2	360K3161	DIODE RD12EB(2)-T4
ZD501	360K3403	DIODE RD5.1JSB(1)-T4
ZD502	360K3188	DIODE RD3.9EB(2)-T4
ZD503	360K3160	DIODE RD8.2EB(2)-T4
ZD561	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD571	360K3134	DIODE RD15EB(2)-T4
ZD591	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD592	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD651	360K3721	DIODE RD36ESB(3)-T4
ZD652	360K3124	DIODE RD8.2EB (3)-T4_
ZD653	360K3123	DIODE RD20EB(3)
ZD710	360K3654	DIODE RD8.2ESB(1)-T4
ZD711	360K3300	DIODE RD2.0EB(1)-T4
ZD712	360K3300	DIODE RD2.0EB(1)-T4
ZD713	360K3300	DIODE RD2.0EB(1)-T4
ZD8A1	360K3654	DIODE RD8.2ESB(1)-T4
ZD8A2	360K3683	DIODE RD16ESB(2)-T4
ZD8A3	360K3169	DIODE RD6.2EB(2)-T4
ZD8A4	360K3634	DIODE RD5.1ESB(1)-T4
ZD8G1	360K3087	DIODE RD3.0EB-T4
ZD802	367K0017	DIODE RD4.7EB-T4
ZD8G3	360K3637	DIODE RD5.6ESB-T4
ZD860	360K3114	DIODE 8.2EB(1)
ZD861	367K0048	DIODE RD5.1EB(2)
ZD951	360K3605	DIODE RD2.2ESB(1)-T4

*** TRANSFORMERS ***

L5G1	46206006	TRANS,CHOKE 2MH
L5M1	46206005	TRANS,CHOKE 4MH
⚠T5A1	47105677	F.B.T.(SR)
T5G0	46302105	TRANS,FERRITE
T5M0	46302105	TRANS,FERRITE
T571	45804008	TRANS,H.DRIVE

SYMBOL	PARTS NO	DESCRIPTION
D8G9	360K1027	DIODE 1SS132
D8H2	360K1027	DIODE 1SS132
D8H3	360K1027	DIODE 1SS132
D8H4	360K1027	DIODE 1SS132
D803	360K1027	DIODE 1SS132
D804	360K1027	DIODE 1SS132
D805	360K1027	DIODE 1SS132
D806	360K1027	DIODE 1SS132
D850	360K1027	DIODE 1SS132
D861	360K1027	DIODE 1SS132
D862	360K1027	DIODE 1SS132
D863	360K1027	DIODE 1SS132
D864	360K1027	DIODE 1SS132
D901	360K1027	DIODE 1SS132
D902	360K1032	DIODE 1SS82-TA
D951	360K1027	DIODE 1SS132
D952	360K1027	DIODE 1SS132
D953	360K1027	DIODE 1SS132
D954	360K1027	DIODE 1SS132
MD801	361K8233	DIODE DAN209S-TP
MD802	361K8233	DIODE DAN209S-TP
PC601	38200233	IC TLP634(NHE-LF2)
PC602	38200233	IC TLP634(NHE-LF2)
TH601	38112058	THERMISTOR,POSITIVE
✦ZD2001	360K3416	DIODE RD5.1JSB(2)-T4
✦ZD2002	360K3416	DIODE RD5.1JSB(2)-T4
ZD2101	360K3647	DIODE RD6.8ESB(2)-T4
ZD401	360K3617	DIODE RD3.3ESB(1)-T4
ZD451	369K5512	DIODE,ZENER RD18JSB2
ZD452	360K3118	DIODE,RD10EB(1)-T4
ZD461	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD471	360K3134	DIODE RD15EB(2)-T4
ZD5A0	360K3157	DIODE RD5.1EB(3)-T4
ZD5A1	360K3134	DIODE RD15EB(2)-T4
ZD5A2	360K3326	DIODE RD18EB(3)-T4
✦ZD5D1	360K3655	DIODE RD8.2ESB(2)/ESAB(2)
✦ZD5E0	360K3635	DIODE RD5.1ESB(2)-T4
✦ZD5E1	360K3134	DIODE RD15EB(2)-T4
✦ZD5E2	360K3098	DIODE RD12EB(3)-T4

SYMBOL	PARTS NO	DESCRIPTION
⚠T581	47710017	TRANS,H.OUTPUT
T601	46311405	TRANS,SWITCHING W345
T8A1	46304111	TRANS,CONVERTER

*** VARIABLE RESISTORS ***

VR101	41011106	R,VARIABLE B10K-V
VR102	41011106	R,VARIABLE B10K-V
⚠VR2001	41505007	R,VARIABLE B5K
VR401	41085009	R,VARIABLE B10K
VR411	41085005	R,VARIABLE B1K
VR421	41085009	R,VARIABLE B10K
VR431	41085015	R,VARIABLE B30OK
VR441	41085012	R,VARIABLE B50K
VR461	41085056	R,VARIABLE B2K
VR5D1	41505005	R,VARIABLE B2K
⚠VR5E1	41505007	R,VARIABLE B5K
VR5S2	41085066	R,VARIABLE B500K
VR5U1	41085059	R,VARIABLE B10K
VR5W1	41085059	R,VARIABLE B10K
VR56A	41085012	R,VARIABLE B50K
VR56C	41085014	R,VARIABLE B200K
VR56E	41085014	R,VARIABLE B200K
VR590	41085009	R,VARIABLE B10K
VR651	41505103	R,VARIABLE B500
VR701	410G1210	R,VARIABLE B3.3K
VR702	410G1210	R,VARIABLE B3.3K
VR703	410G1210	R,VARIABLE B3.3K
VR720	415K5159	R,VARIABLE B20K
VR721	415K5159	R,VARIABLE B20K
VR722	415K5159	R,VARIABLE B20K
VR723	415K5159	R,VARIABLE B20K
VR724	415K5159	R,VARIABLE B20K
VR725	415K5159	R,VARIABLE B20K
VR8A1	410G1207	R,VARIABLE B1.0K
VR801	410G1415	R,VARIABLE B22K-T
VR802	410G1415	R,VARIABLE B22K-T
VR860	410G1213	R,VARIABLE B10K
VR861	410G1211	R,VARIABLE B4.7K
VR901	41085014	R,VARIABLE B200K
VR951	41085009	R,VARIABLE B10K

SYMBOL	PARTS NO	DESCRIPTION
VR952	41085014	R,VARIABLE B200K
***	RELAYS & SWITCHES	***
	65360029	SWITCH,PUSH BUTTON
RL590	65660004	RELAY G6C-1114P-US
RL591	65660004	RELAY G6C-1114P-US
RL601	65660019	RELAY G5P-1(24V)
SW101	653F0031	SWITCH,PUSH BUTTON
SW102	653F0031	SWITCH,PUSH BUTTON
SW103	653F0031	SWITCH,PUSH BUTTON
SW104	653F0031	SWITCH,PUSH BUTTON
SW105	653F0031	SWITCH,PUSH BUTTON
SW106	653F0031	SWITCH,PUSH BUTTON
SW107	653F0031	SWITCH,PUSH BUTTON
SW108	653F0031	SWITCH,PUSH BUTTON
SW109	653F0031	SWITCH,PUSH BUTTON
SW110	653F0031	SWITCH,PUSH BUTTON
SW111	55161067	SWITCH,SLIDE 1-6L-2NS V
SW112	55161068	SWITCH,SLIDE 1-6L-3NS V
SW401	65161048	SWITCH,SLIDE
SW701	65161066	SWITCH,SLIDE 2-6L-2NS(S1)
***	COILS & FILTERS	***
	61062076	POWER LINE FILTER
DEG	61317201	COIL,DEGAUSSING
FL601	61062102	COIL,LINE FILTER 8.2MH
FL602	61062102	COIL,LINE FILTER 8.2MH
LC701	616K6801	NOISE FILTER 2R2-101-T
LC702	616K6801	NOISE FILTER 2R2-101-T
LC703	616K6801	NOISE FILTER 2R2-101-T
LC704	616K6801	NOISE FILTER 2R2-101-T
LC705	616K6965	NOISE FILTER TX09500N8T
LC706	616K6965	NOISE FILTER TX09500N8T
LC707	616K6965	NOISE FILTER TX09500N8T
LC708	616K5964	NOISE FILTER TX07250N8T
LC709	616K6964	NOISE FILTER TX07250N8T
LC710	616K6964	NOISE FILTER TX07250N8T
LC711	616K6946	NOISE FILTER TH28123MA
LC712	616K6946	NOISE FILTER TH28123MA

SYMBOL	PARTS NO	DESCRIPTION
LC713	616K6946	NOISE FILTER TH28123MA
LC714	616K6946	NOISE FILTER TH28123MA
LC715	616K6946	NOISE FILTER TH28123MA
LC901	616K6028	NOISE FILTER 1H223X-TA
LC902	616K6946	NOISE FILTER TH28123MA
⚠L5E1	61064006	COIL,FILTER 50UH
L5G0	61064006	COIL,FILTER 50UH
L5G2	61064006	COIL,FILTER 50UH
⚠L5M0	61064006	COIL,FILTER 50UH
L5S1	610E1717	COIL,FILTER 10UH
⚠L590	60919122	COIL,H.LIN. N-60 (10T)
⚠L591	60919121	COIL,H.LIN. N-59 (16T)
⚠L592	60919121	COIL,H.LIN. N-59 (16T)
⚠L593	61099019	COIL,CHOKE 10MH
L594	61070135	FILTER CHOKE 4MH
L601	61072349	COIL,FILTER
L602	610F5002	FERRITE BEADS (B-02-RT)
L651	61099036	FILTER CHOKE
L652	61099014	COIL,CHOKE 33UH
L653	61099013	COIL,CHOKE 10UH
L704	61099011	COIL,CHOKE 33UH
L710	610E1726	COIL,FILTER 56UH
L711	610E1726	COIL,FILTER 56UH
L712	610E1726	COIL,FILTER 56UH
L720	610F6014	COIL,FILTER 5.6UH
L721	610F6014	COIL,FILTER 5.6UH
L722	610F6014	COIL,FILTER 5.6UH
L8A1	61064006	COIL,FILTER 50UH
L8A2	61064006	COIL,FILTER 50UH
L8A3	61099047	FILTER CHOKE
L8A5	610S5001	COIL,FILTER 8500UH
L901	610F7619	COIL,FILTER 0.15UH
L902	610F7619	COIL,FILTER 0.15UH
L903	610F7619	COIL,FILTER 0.15UH
MC801	39013042	C,CERAMIC 25V 0.01UF
MC802	39013042	C,CERAMIC 25V 0.01UF
MC803	39013042	C,CERAMIC 25V 0.01UF
MC804	39013042	C,CERAMIC 25V 0.01UF
MR801	390C9804	R,NETWORK
MR802	390C0151	R,NETWORK 8*10K 5% 1/8W

SYMBOL	PARTS NO	DESCRIPTION
MR803	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR804	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR805	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR806	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR807	390C9805	R,NETWORK 4*1.0K 5% 1/6W
***	PWB ASSYS	***
⚠	84N65A01	SW.REG PWB ASSY
	84N65C01	VIDEO PWB ASSY
	84N65D01	DEF PWB ASSY
	84N65J01	CRT PWB ASSY
	84N65M01	CPU PWB ASSY
	84N65S01	SDP PWB ASSY
	84N65T01	TR PWB ASSY
***	ELECTRICAL PARTS & MISCELLANEOUS PARTS	***
	70032054	SG/CRT SOCKET(DBF)
	72051321	RECEPTACLE 1P
UMB	70800066	LINE CORD E-3 #8011
UMR	75513033	LINE CORD
UMB(EE)	70800324	LINE,POWER
	71205037	HOLDER,FUSE
	73893105	CABLE,SIGNAL D15P-MD15P
	74004891	CAP
CN-D1	70056399	D-SUB SOCKET 15PV
CN-D2	70056398	MINI D-SUB SOCKET 15PV
F6C1	66671027	FUSE 250V 4A
F651	66671027	FUSE 250V 4A
HS1	31709204	SHEET,HEAT SINK
HS2	31709105	SHEET,HEAT SINK
HS3	31709612	SHEET INSULATOR M-45
HS5A4	31709614	SHEET,INSULATOR M-45
HS581	31709507	SHEET,INSULATOR HEAT SINK
HS582	31709503	SHEET,INSULATOR
SG901	329J0047	ARRESTER (300V),AT52
SG902	329J0047	ARRESTER (300V),AT52
SG903	329J0047	ARRESTER (300V),AT52
SG904	329J0047	ARRESTER (300V),AT52
SG905	66706002	SPARK GAP 1.5KV
SG951	667K7001	SPARK GAP 1.2KV
X801	64098031	X'TAL 12000KHZ

SYMBOL	PARTS NO	DESCRIPTION
***	APPEARANCE PARTS	***
	25282981	SCREW REVET
	25283511	JOINT
	25313931	CABINET BACK(A)ASSY
	25313951	CABINET BACK (B) ASSY
	25313971	CABINET BOTTOM
	25314071	CABINET FRONT ASSY
	25419341	HOOK (B)
	25419371	ESCUTCHEON
	25419381	REVOLVING STAND ASSY
	25419401	REVOLVING SPINDLE
	25420251	LID,CONTROL ASSY
	25534631	COIL SPRING
	25607291	SLIDE SHEET
	25757643	LABEL(REV.)
	25775701	LABEL (CONTROL)
	25775751	LABEL (EE)
UMB/UMB(EE)	25775921	NAME PLATE INSTRUCTION
UMR	25776381	NAME PLATE INSTRUCTION
	25776251	LABEL (ESCUTCHEON)
***	KNOBS & PUSH BUTTONS	***
	25454691	KNOB,SLIDE
	25454741	PUSH BUTTON (SW)
	25454752	KNOB,CONTROL
***	PRINTED & PACKING MATERIALS	***
	24813191	BAG,POLYETHYLENE(150*370)
	24814531	BAG,POLYEHYLENE (180*350)
	25815061	BAG,POLYETHYLENE (270X370
	25822831	SHEET PROTECTION
	25823541	CARTON BOX (JC-1741UMB/B(EE))
	25823981	CARTON BOX (JC-1741UMR)
	25823551	FILLER T.CARTON
	25823561	FILLER (B) CARTON
	25826101	CARTON BOX(B)
	78034407	MONITOR SALES OFFICE LIST
	73126011	USER'S MANUAL (5FG/6FG)B
	78652211	TEMPLATE B

SYMBOL	PARTS NO	DESCRIPTION
***	RESISTORS ***	
R110	401K5655	R,CARBON 180H 5% 1/6W
R111	401K5673	R,CARBON 1.0K 5% 1/6W
R120	401K5693	R,CARBON 6.8K 5% 1/6W
R121	401K5669	R,CARBON 680H 5% 1/6W
R122	404C1683	R,METAL 2.7K 1% 1/6W
R123	404C1691	R,METAL 5.6K 1% 1/6W
R124	401C6667	R,CARBON 560H 5% 1/4W
⚠R200A	401K5711	R,CARBON 39K 5% 1/6W
⚠R200C	401K5711	R,CARBON 39K 5% 1/6W
⚠R200F	401K5715	R,CARBON 56K 5% 1/6W
⚠R2001	404C1721	R,METAL 100K 1% 1/6W
⚠R2006	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R2007	401K5697	R,CARBON 10K 5% 1/6W
⚠R2008	401K5721	R,CARBON 100K 5% 1/6W
⚠R2009	401K5713	R,CARBON 47K 5% 1/6W
⚠R201D	401K5753	R,CARBON 2.2M 5% 1/6W
⚠R201E	401K5711	R,CARBON 39K 5% 1/6W
⚠R201F	401K5721	R,CARBON 100K 5% 1/6W
⚠R201G	401K5685	R,CARBON 3.3K 5% 1/6W
⚠R201H	401K5693	R,CARBON 6.8K 5% 1/6W
⚠R201K	401K5697	R,CARBON 10K 5% 1/6W
⚠R201L	401K5705	R,CARBON 22K 5% 1/6W
⚠R201M	401K5689	R,CARBON 4.7K 5% 1/6W
⚠R2010	401K5697	R,CARBON 10K 5% 1/6W
⚠R2011	401K5649	R,CARBON 100H 5% 1/6W
⚠R2012	401K5709	R,CARBON 33K 5% 1/6W
⚠R2013	401K5699	R,CARBON 12K 5% 1/6W
⚠R2018	404C1577	R,METAL 1.5K 1% 1/6W
⚠R2019	404C1697	R,METAL 10K 1% 1/6W
⚠R2020	401K5697	R,CARBON 10K 5% 1/6W
⚠R210C	401K5753	R,CARBON 2.2M 5% 1/6W
R2101	401K5709	R,CARBON 33K 5% 1/6W
R2102	401K5659	R,CARBON 270H 5% 1/6W
R2104	401K5701	R,CARBON 15K 5% 1/6W
R401	401K5689	R,CARBON 4.7K 5% 1/6W
R402	401K5699	R,CARBON 12K 5% 1/6W
R403	404C1694	R,METAL 7.5K 1% 1/6W
R404	401K5705	R,CARBON 22K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R405	403F1165	R,METAL 470H 5% 1W
R406	401C6609	R,CARBON 2.2H 5% 1/4W
R407	401K5581	R,CARBON 2.2K 5% 1/6W
R408	401K5649	R,CARBON 100H 5% 1/6W
R409	401K5673	R,CARBON 1.0K 5% 1/6W
R410	403F2101	R,METAL 1.0H 5% 2W
R411	401K5585	R,CARBON 3.3K 5% 1/6W
R420	401K5699	R,CARBON 12K 5% 1/6W
R421	401K5701	R,CARBON 15K 5% 1/6W
R422	401K5711	R,CARBON 39K 5% 1/6W
R423	401K5709	R,CARBON 33K 5% 1/6W
R424	401K5707	R,CARBON 27K 5% 1/6W
R425	404C1711	R,METAL 39K 1% 1/6W
R426	404C1717	R,METAL 68K 1% 1/6W
R427	404C1731	R,METAL 270K 1% 1/6W
R428	404C1725	R,METAL 150K 1% 1/6W
R429	404C1713	R,METAL 47K 1% 1/6W
R430	404C1721	R,METAL 100K 1% 1/6W
R431	401K5721	R,CARBON 100K 5% 1/6W
R433	401K5721	R,CARBON 100K 5% 1/6W
R434	401K5721	R,CARBON 100K 5% 1/6W
R435	401K5721	R,CARBON 100K 5% 1/6W
R436	401K5715	R,CARBON 56K 5% 1/6W
R437	401K5715	R,CARBON 56K 5% 1/6W
R438	401K5735	R,CARBON 390K 5% 1/6W
R439	404C1745	R,METAL 1.0M 1% 1/6W
R440	401K5753	R,CARBON 2.2M 5% 1/6W
R441	404C1739	R,METAL 560K 1% 1/6W
R442	404C1721	R,METAL 100K 1% 1/6W
R443	401K5713	R,CARBON 47K 5% 1/6W
R444	404C1743	R,METAL 820K 1% 1/6W
R445	401K5705	R,CARBON 22K 5% 1/6W
R446	404C1723	R,METAL 120K 1% 1/6W
R447	404C1707	R,METAL 27K 1% 1/6W
R450	401K5717	R,CARBON 68K 5% 1/6W
R451	401K5707	R,CARBON 27K 5% 1/6W
R452	401K5721	R,CARBON 100K 5% 1/6W
R453	401K5721	R,CARBON 100K 5% 1/6W
R454	401K5673	R,CARBON 1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R455	401K5673	R,CARBON 1.0K 5% 1/6W
R456	403F3141	R,METAL OXIDE 47H 5% 3W
R457	403F3141	R,METAL OXIDE 47H 5% 3W
R461	404K5117	R,METAL 4.7H 5% 1/4W
R462	401K5689	R,CARBON 4.7K 5% 1/6W
R463	401K5687	R,CARBON 3.9K 5% 1/6W
R464	401K5697	R,CARBON 10K 5% 1/6W
R465	401K5691	R,CARBON 5.6K 5% 1/6W
R466	401K5681	R,CARBON 2.2K 5% 1/6W
R471	404C1713	R,METAL 47K 1% 1/6W
R472	404C1699	R,METAL 12K 1% 1/6W
R473	404C1719	R,METAL 82K 1% 1/6W
R474	401K5677	R,CARBON 1.5K 5% 1/6W
R475	401K5697	R,CARBON 10K 5% 1/6W
R476	403F2169	R,METAL OXIDE 680H 5% 2W
R477	403F2169	R,METAL OXIDE 680H 5% 2W
⚠R481	404K5125	R,METAL 10H 5% 1/4W
R482	401K5711	R,CARBON 39K 5% 1/6W
R483	401K5715	R,CARBON 56K 5% 1/6W
R484	401K5723	R,CARBON 120K 5% 1/6W
⚠R491	401G6173	R,CARBON 1.0K 5% 1/4W
R492	401K5749	R,CARBON 1.5M 5% 1/6W
⚠R5AA	401C6745	R,CARBON 1.0M 5% 1/4W
⚠R5AC	401C6745	R,CARBON 1.0M 5% 1/4W
R5A0	401K5683	R,CARBON 2.7K 5% 1/6W
R5A1	403F1177	R,METAL OXIDE 1.5K 5% 1W
R5A2	404C1685	R,METAL 3.3K 1% 1/6W
R5A3	401K5713	R,CARBON 47K 5% 1/6W
R5A4	401K5683	R,CARBON 2.7K 5% 1/6W
R5A5	401K5683	R,CARBON 2.7K 5% 1/6W
R5A6	403F1173	R,METAL OXIED 1.0K 5% 1W
R5A7	401K5677	R,CARBON 1.5K 5% 1/6W
R5A8	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5A9	401G8137	R,CARBON 33H 5% 1/2W
⚠R5C1	401J5125	R,CARBON 10H 5% 1/4W
⚠R5C2	401J5125	R,CARBON 10H 5% 1/4W
⚠R5C3	404K5109	R,METAL 2.2H 5% 1/4W
⚠R5C4	401K5709	R,CARBON 33K 5% 1/6W
⚠R5D1	404K5109	R,METAL 2.2H 5% 1/4W

SYMBOL	PARTS NO	DESCRIPTION
R5D2	401K5691	R,CARBON 5.6K 5% 1/6W
R5D3	401K5677	R,CARBON 1.5K 5% 1/6W
⚠R5D4	401G6191	R,CARBON 5.6K 5% 1/4W
R5D5	401K5709	R,CARBON 33K 5% 1/6W
⚠R5D6	403F3173	R,METAL OXIDE 1.0K 5% 3W
R5D7	403J8994	R,METAL 2.2K 5% 5W
⚠R5EA	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E0	401K5683	R,CARBON 2.7K 5% 1/6W
⚠R5E1	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R5E2	401K5699	R,CARBON 12K 5% 1/6W
⚠R5E3	403F1173	R,METAL OXIED 1.0K 5% 1W
⚠R5E4	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E5	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E7	401J9820	RD16Z,0H,AT52
⚠R5E8	401C6691	R,CARBON 5.6K 5% 1/4W
⚠R5E9	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R5F0	404K5141	R,METAL 47H 5% 1/4W
R5F2	404K5125	R,METAL 10H 5% 1/4W
R5F3	404C1721	R,METAL 100K 1% 1/6W
R5F4	404C1703	R,METAL 18K 1% 1/6W
R5F8	404C1721	R,METAL 100K 1% 1/6W
⚠R5F9	404K5109	R,METAL 2.2H 5% 1/4W
R5GA	401G6127	R,CARBON 12H 5% 1/4W
R5G1	401K5693	R,CARBON 6.8K 5% 1/6W
R5G2	401K5697	R,CARBON 10K 5% 1/6W
R5G3	401K5737	R,CARBON 470K 5% 1/6W
R5G4	401K5699	R,CARBON 12K 5% 1/6W
R5G5	401K5693	R,CARBON 6.8K 5% 1/6W
R5G6	401J5101	R,CARBON 1H 5% 1/4W
R5G7	401K5721	R,CARBON 100K 5% 1/6W
R5G8	401K5729	R,CARBON 220K 5% 1/6W
R5G9	401K5745	R,CARBON 1.0M 5% 1/6W
R5H0	401K5701	R,CARBON 15K 5% 1/6W
R5H1	401K5689	R,CARBON 4.7K 5% 1/6W
R5H2	401K5713	R,CARBON 47K 5% 1/6W
R5H3	401K5713	R,CARBON 47K 5% 1/6W
R5H4	401K5695	R,CARBON 8.2K 5% 1/6W
R5H5	401K5705	R,CARBON 22K 5% 1/6W
R5H7	401K5719	R,CARBON 82K 5% 1/6W
R5H8	401K5709	R,CARBON 33K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R5K3	401K5723	R,CARBON 120K 5% 1/6W
R5K5	401K5687	R,CARBON 3.9K 5% 1/6W
R5K6	401K5633	R,CARBON 22H 5% 1/6W
R5K7	401K5693	R,CARBON 6.8K 5% 1/6W
R5M0	401K5693	R,CARBON 6.8K 5% 1/6W
⚠R5M1	401T5127	R,CARBON 12H 5% 1/4W
R5M2	401K5705	R,CARBON 22K 5% 1/6W
R5M3	401K5723	R,CARBON 120K 5% 1/6W
R5M5	401K5745	R,CARBON 1.0M 5% 1/6W
R5M6	401K5709	R,CARBON 33K 5% 1/6W
R5M7	401K5715	R,CARBON 56K 5% 1/6W
R5M8	401K5697	R,CARBON 10K 5% 1/6W
R5N0	401K5687	R,CARBON 3.9K 5% 1/6W
R5N1	401K5693	R,CARBON 6.8K 5% 1/6W
R5N2	401K5641	R,CARBON 47H 5% 1/6W
⚠R5N3	40848109	R,FUSE 2.2H 5% 1/2W
⚠R5N4	401G6185	R,CARBON 3.3K 5% 1/4W
⚠R5N5	401H5741	R,CARBON 680K 5% 1/2W
R5N7	401K5733	R,CARBON 330K 5% 1/6W
R5N9	404C1725	R,METAL 150K 1% 1/6W
R5R0	401K5699	R,CARBON 12K 5% 1/6W
R5R4	401K5689	R,CARBON 4.7K 5% 1/6W
R5R5	401K5679	R,CARBON 1.8K 5% 1/6W
R5R6	401C6669	R,CARBON 680H 5% 1/4W
R5R7	401K5699	R,CARBON 12K 5% 1/6W
⚠R5R8	404C1725	R,METAL 10H 5% 1/4W
R5S0	404C1713	R,METAL 47K 1% 1/6W
R5S1	404C1721	R,METAL 100K 1% 1/6W
R5S2	404C1721	R,METAL 100K 1% 1/6W
R5S3	401K5697	R,CARBON 10K 5% 1/6W
R5S4	401K5697	R,CARBON 10K 5% 1/6W
R5S5	404C1703	R,METAL 18K 1% 1/6W
R5S6	401K5725	R,CARBON 150K 5% 1/6W
R5S7	401K5721	R,CARBON 100K 5% 1/6W
R5S8	401K5713	R,CARBON 47K 5% 1/6W
R5S9	401K5721	R,CARBON 100K 5% 1/6W
R5T0	401K5713	R,CARBON 47K 5% 1/6W
R5T1	401K5697	R,CARBON 10K 5% 1/6W
R5T2	401K5697	R,CARBON 10K 5% 1/6W
R5T3	401K5707	R,CARBON 27K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R50G	404C1703	R,METAL 18K 1% 1/6W
R50H	401K5727	R,CARBON 180K 5% 1/6W
R50K	401K5687	R,CARBON 3.9K 5% 1/6W
R50L	401K5727	R,CARBON 180K 5% 1/6W
R50M	401K5697	R,CARBON 10K 5% 1/6W
R50T	401K5707	R,CARBON 27K 5% 1/6W
R501	401K5757	R,CARBON 3.3M 5% 1/6W
⚠R502	401K5717	R,CARBON 68K 5% 1/6W
⚠R503	401K5709	R,CARBON 33K 5% 1/6W
R504	401K5697	R,CARBON 10K 5% 1/6W
R505	401K5697	R,CARBON 10K 5% 1/6W
R506	404C1729	R,METAL 220K 1% 1/6W
⚠R507	404C1721	R,METAL 100K 1% 1/6W
R508	404C1727	R,METAL 180K 1% 1/6W
R509	401K5709	R,CARBON 33K 5% 1/6W
R51A	404C1707	R,METAL 27K 1% 1/6W
R51C	401K5601	R,CARBON 1H 5% 1/6W
R51E	404C1721	R,METAL 100K 1% 1/6W
R51F	404C1689	R,METAL 4.7K 1% 1/6W
R51G	404C1705	R,METAL 22K 1% 1/6W
R51H	401K5735	R,CARBON 390K 5% 1/6W
R51K	401K5687	R,CARBON 3.9K 5% 1/6W
R510	404C1717	R,METAL 68K 1% 1/6W
R511	401K5675	R,CARBON 1.2K 5% 1/6W
R512	401K5699	R,CARBON 12K 5% 1/6W
R513	401K5659	R,CARBON 270H 5% 1/6W
R514	401K5693	R,CARBON 6.8K 5% 1/6W
R515	401K5697	R,CARBON 10K 5% 1/6W
R516	401K5673	R,CARBON 1.0K 5% 1/6W
R519	403F2171	R,METAL 820H 5% 2W
R52A	404C1711	R,METAL 39K 1% 1/6W
R52C	404C1695	R,METAL 8.2K 1% 1/6W
R52E	404C1721	R,METAL 100K 1% 1/6W
R52F	401K5685	R,CARBON 3.3K 5% 1/6W
R52G	404C1709	R,METAL 33K 1% 1/6W
R52H	401K5737	R,CARBON 470K 5% 1/6W
R52K	401K5687	R,CARBON 3.9K 5% 1/6W
R52T	401K5707	R,CARBON 27K 5% 1/6W
R520	401K5691	R,CARBON 5.6K 5% 1/6W
R521	403F3163	R,METAL OXIDE 390H 5% 3W

SYMBOL	PARTS NO	DESCRIPTION
R5T4	401K5697	R,CARBON 10K 5% 1/6W
R5T6	401K5693	R,CARBON 6.8K 5% 1/6W
R5T7	401K5705	R,CARBON 22K 5% 1/6W
R5T8	401K5719	R,CARBON 82K 5% 1/6W
R5U0	401K5697	R,CARBON 10K 5% 1/6W
R5U1	401K5721	R,CARBON 100K 5% 1/6W
R5U2	401K5697	R,CARBON 10K 5% 1/6W
R5U3	401K5697	R,CARBON 10K 5% 1/6W
R5U4	404C1710	R,METAL 36K 1% 1/6W
R5U5	404C1710	R,METAL 36K 1% 1/6W
R5U6	401K5707	R,CARBON 27K 5% 1/6W
R5U7	401K5683	R,CARBON 2.7K 5% 1/6W
R5U8	401K5721	R,CARBON 100K 5% 1/6W
R5U9	401K5705	R,CARBON 22K 5% 1/6W
R5W0	401K5729	R,CARBON 220K 5% 1/6W
R5W2	401K5721	R,CARBON 100K 5% 1/6W
R5W3	401K5721	R,CARBON 100K 5% 1/6W
R5W4	401K5673	R,CARBON 1.0K 5% 1/6W
R5W5	401K5673	R,CARBON 1.0K 5% 1/6W
R5W9	401K5705	R,CARBON 22K 5% 1/6W
R5X0	404C1697	R,METAL 10K 1% 1/6W
R5X1	401K5697	R,CARBON 10K 5% 1/6W
R5X2	404C1715	R,METAL 56K 1% 1/6W
R5X3	404C1715	R,METAL 56K 1% 1/6W
R5X4	401K5697	R,CARBON 10K 5% 1/6W
R5X5	401K5721	R,CARBON 100K 5% 1/6W
R5X6	401K5685	R,CARBON 3.3K 5% 1/6W
R5X7	401K5703	R,CARBON 18K 5% 1/6W
R5X8	404C1727	R,METAL 180K 1% 1/6W
R5X9	404C1721	R,METAL 100K 1% 1/6W
R5Y1	404C1721	R,METAL 100K 1% 1/6W
R5Y2	404C1721	R,METAL 100K 1% 1/6W
R5Y3	401K5697	R,CARBON 10K 5% 1/6W
R5Y4	401K5691	R,CARBON 5.6K 5% 1/6W
R5Y5	401K5717	R,CARBON 68K 5% 1/6W
R5Y6	401K5707	R,CARBON 27K 5% 1/6W
R50A	404C1697	R,METAL 10K 1% 1/6W
R50C	404C1675	R,METAL 1.2K 1% 1/6W
R50E	404C1721	R,METAL 100K 1% 1/6W
R50F	401K5601	R,CARBON 1H 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R522	401K5705	R,CARBON 22K 5% 1/6W
R523	401K5699	R,CARBON 12K 5% 1/6W
R524	401J9820	RD1/2,CP,AT52
R526	401K5697	R,CARBON 10K 5% 1/6W
R527	401K5697	R,CARBON 10K 5% 1/6W
R528	401K5677	R,CARBON 1.5K 5% 1/6W
R529	401K5697	R,CARBON 10K 5% 1/6W
R53A	404C1721	R,METAL 100K 1% 1/6W
R53C	404C1699	R,METAL 12K 1% 1/6W
R53E	404C1721	R,METAL 100K 1% 1/6W
R53F	404C1705	R,METAL 22K 1% 1/6W
R53G	404C1711	R,METAL 39K 1% 1/6W
R53H	401K5743	R,CARBON 820K 5% 1/6W
R53K	401K5687	R,CARBON 3.9K 5% 1/6W
R53L	401K5673	R,CARBON 1.0K 5% 1/6W
R53S	401K5697	R,CARBON 10K 5% 1/6W
R53T	401K5707	R,CARBON 27K 5% 1/6W
R531	401K5709	R,CARBON 33K 5% 1/6W
R532	401K5709	R,CARBON 33K 5% 1/6W
R533	401K5689	R,CARBON 4.7K 5% 1/6W
R534	401K5709	R,CARBON 33K 5% 1/6W
R535	401K5673	R,CARBON 1.0K 5% 1/6W
R536	404C1703	R,METAL 18K 1% 1/6W
R537	404C1683	R,METAL 2.7K 1% 1/6W
R538	404C1705	R,METAL 22K 1% 1/6W
R54A	404C1725	R,METAL 150K 1% 1/6W
R54C	404C1707	R,METAL 27K 1% 1/6W
R54E	404C1721	R,METAL 100K 1% 1/6W
R54F	401K5601	R,CARBON 1H 5% 1/6W
R54G	404C1721	R,METAL 100K 1% 1/6W
R54H	401K5745	R,CARBON 1.0M 5% 1/6W
R54K	401K5687	R,CARBON 3.9K 5% 1/6W
R54T	401K5707	R,CARBON 27K 5% 1/6W
R544	401K5697	R,CARBON 10K 5% 1/6W
R55A	404C1729	R,METAL 220K 1% 1/6W
R55C	404C1709	R,METAL 33K 1% 1/6W
R55E	404C1721	R,METAL 100K 1% 1/6W
R55F	404C1711	R,METAL 39K 1% 1/6W
R55G	404C1723	R,METAL 120K 1% 1/6W
R55H	401K5747	R,CARBON 1.2M 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R55K	401K5687	R,CARBON 3.9K 5% 1/6W
R55T	401K5707	R,CARBON 27K 5% 1/6W
R56A	401K5723	R,CARBON 120K 5% 1/6W
R56C	401K5721	R,CARBON 100K 5% 1/6W
R56E	401K5725	R,CARBON 150K 5% 1/6W
R56F	401K5723	R,CARBON 120K 5% 1/6W
R56G	401K5715	R,CARBON 56K 5% 1/6W
R56H	401K5715	R,CARBON 56K 5% 1/6W
R56K	404C1721	R,METAL 100K 1% 1/6W
R56L	404C1715	R,METAL 56K 1% 1/6W
R56M	401K5661	R,CARBON 330H 5% 1/6W
R56R	404C1697	R,METAL 10K 1% 1/6W
R56S	401K5657	R,CARBON 220H 5% 1/6W
R56T	401K5719	R,CARBON 82K 5% 1/6W
R56W	401K5731	R,CARBON 270K 5% 1/6W
R56X	401K5601	R,CARBON 1H 5% 1/6W
R568	401K5709	R,CARBON 33K 5% 1/6W
R569	401K5697	R,CARBON 10K 5% 1/6W
R57A	404C1717	R,METAL 68K 1% 1/6W
R57E	401K5649	R,CARBON 100H 5% 1/6W
⚠R57F	404K5141	R,METAL 47H 5% 1/4W
⚠R57G	409A6149	R,FUSE 100H 5% 1/4W
⚠R57H	404K5109	R,METAL 2.2H 5% 1/4W
R57K	401K5681	R,CARBON 2.2K 5% 1/6W
⚠R57L	404K5141	R,METAL 47H 5% 1/4W
⚠R57T	403F1137	R,METAL 33H 5% 1W
⚠R57V	403F3177	R,METAL OXIDE 1.5K 5% 3W
⚠R570	404K5109	R,METAL 2.2H 5% 1/4W
R571	404C1729	R,METAL 220K 1% 1/6W
R572	404C1715	R,METAL 56K 1% 1/6W
R573	404C1705	R,METAL 22K 1% 1/6W
R574	404C1723	R,METAL 120K 1% 1/6W
R575	404C1729	R,METAL 220K 1% 1/6W
R576	404C1703	R,METAL 18K 1% 1/6W
R577	404C1705	R,METAL 22K 1% 1/6W
R578	401C6677	R,CARBON 1.5K 5% 1/4W
R579	404C1703	R,METAL 18K 1% 1/6W
R58A	404C1689	R,METAL 4.7K 1% 1/6W
R58C	401K5661	R,CARBON 330H 5% 1/6W
R58E	404C1721	R,METAL 100K 1% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R612	40175125	R,CARBON 10H 5% 1/4W
R613	401K5705	R,CARBON 22K 5% 1/6W
R614	401K5701	R,CARBON 15K 5% 1/6W
R615	401K5657	R,CARBON 220H 5% 1/6W
R616	40373219	R,METAL 82K 5% 3W
R617	40373219	R,METAL 82K 5% 3W
R619	401H5667	R,CARBON 560H 5% 1/2W
R620	401K5721	R,CARBON 100K 5% 1/6W
R651	40373135	R,METAL 27H 5% 3W
R652	401K5697	R,CARBON 10K 5% 1/6W
R653	404C1689	R,METAL 4.7K 1% 1/6W
R654	40373135	R,METAL 27H 5% 3W
R655	401H5705	R,CARBON 22K 5% 1/2W
R656	40372135	R,METAL 27H 5% 2W
R657	401K5677	R,CARBON 1.5K 5% 1/6W
R658	401K5677	R,CARBON 1.5K 5% 1/6W
R659	401K5675	R,CARBON 1.2K 5% 1/6W
R660	401K5705	R,CARBON 22K 5% 1/6W
R661	404C1683	R,METAL 2.7K 1% 1/6W
R662	401K5649	R,CARBON 100H 5% 1/6W
R663	401K5689	R,CARBON 4.7K 5% 1/6W
R664	40372213	R,METAL 47K 5% 2W
R665	40372197	R,METAL 10K 5% 2W
R666	40372175	R,METAL 1.2K 5% 2W
R667	401C6665	R,CARBON 470H 5% 1/4W
R668	401C6657	R,CARBON 220H 5% 1/4W
R669	401K5713	R,CARBON 47K 5% 1/6W
R670	401K5701	R,CARBON 15K 5% 1/6W
R671	401K5717	R,CARBON 68K 5% 1/6W
R672	401K5669	R,CARBON 680H 5% 1/6W
R674	401K5673	R,CARBON 1.0K 5% 1/6W
R7A0	401K5649	R,CARBON 100H 5% 1/6W
R7A1	401K5649	R,CARBON 100H 5% 1/6W
R7A2	401K5649	R,CARBON 100H 5% 1/6W
R7A3	401K5663	R,CARBON 390H 5% 1/6W
R7A4	401K5687	R,CARBON 3.9K 5% 1/6W
R7A5	401K5663	R,CARBON 390H 5% 1/6W
R7A6	401K5687	R,CARBON 3.9K 5% 1/6W
R7A7	401K5663	R,CARBON 390H 5% 1/6W
R7A8	401K5687	R,CARBON 3.9K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R58F	404C1681	R,METAL 2.2K 1% 1/6W
R58G	404C1699	R,METAL 12K 1% 1/6W
R58H	401K5721	R,CARBON 100K 5% 1/6W
R58K	401K5687	R,CARBON 3.9K 5% 1/6W
R58T	401K5707	R,CARBON 27K 5% 1/6W
R581	40298004	R,WIRE 1.0H 1% 5W
R582	40298004	R,WIRE 1.0H 1% 5W
R583	401C6651	R,CARBON 120H 5% 1/4W
R584	401C6651	R,CARBON 120H 5% 1/4W
R59A	401K5649	R,CARBON 100H 5% 1/6W
R59C	401K5649	R,CARBON 100H 5% 1/6W
R59E	401K5649	R,CARBON 100H 5% 1/6W
R59F	401K5649	R,CARBON 100H 5% 1/6W
R59G	401K5649	R,CARBON 100H 5% 1/6W
R59L	401K5685	R,CARBON 3.3K 5% 1/6W
R59M	401K5719	R,CARBON 82K 5% 1/6W
R59N	401K5699	R,CARBON 12K 5% 1/6W
R59S	401K5685	R,CARBON 3.3K 5% 1/6W
R59T	401K5685	R,CARBON 3.3K 5% 1/6W
R59W	401K5649	R,CARBON 100H 5% 1/6W
R590	401K5685	R,CARBON 3.3K 5% 1/6W
⚠R591	404K5117	R,METAL 4.7H 5% 1/4W
⚠R592	408A8157	R,FUSE 220H 5% 1/2W
⚠R593	408A8157	R,FUSE 220H 5% 1/2W
⚠R594	408A8157	R,FUSE 220H 5% 1/2W
R595	401K5685	R,CARBON 3.3K 5% 1/6W
R596	401K5667	R,CARBON 560H 5% 1/6W
R597	401K5685	R,CARBON 3.3K 5% 1/6W
R598	401K5667	R,CARBON 560H 5% 1/6W
R599	403F3141	R,METAL OXIDE 47H 5% 3W
R601	401H5737	R,CARBON 470K 5% 1/2W
R602	40298005	R,WIRE 15H 5% 7W
R603	401H5745	R,CARBON 1.0M 5% 1/2W
R604	40372151	R,METAL 120H 5% 2W
R605	401K5673	R,CARBON 1.0K 5% 1/6W
R606	40372219	R,METAL 82K 5% 2W
R607	40372211	R,METAL 39K 5% 2W
R608	40372329	R,METAL 0.22H 5% 2W
R610	40373141	R,METAL 47H 5% 3W
R611	40175145	R,CARBON 68H 5% 1/4W

SYMBOL	PARTS NO	DESCRIPTION
R7C0	401K5639	R,CARBON 39H 5% 1/6W
R7C1	401K5639	R,CARBON 39H 5% 1/6W
R7C2	401K5639	R,CARBON 39H 5% 1/6W
R7C3	401K5713	R,CARBON 47K 5% 1/6W
R7C4	401K5691	R,CARBON 5.6K 5% 1/6W
R7C5	401K5713	R,CARBON 47K 5% 1/6W
R7C6	401K5691	R,CARBON 5.6K 5% 1/6W
R7C7	401K5713	R,CARBON 47K 5% 1/6W
R7C8	401K5691	R,CARBON 5.6K 5% 1/6W
R7D0	401K5729	R,CARBON 220K 5% 1/6W
R7D1	401K5729	R,CARBON 220K 5% 1/6W
R7D2	401K5729	R,CARBON 220K 5% 1/6W
R7D3	401K5725	R,CARBON 150K 5% 1/6W
R7D4	401K5725	R,CARBON 150K 5% 1/6W
R7D5	401K5725	R,CARBON 150K 5% 1/6W
R7D6	401K5719	R,CARBON 82K 5% 1/6W
R7D7	401K5719	R,CARBON 82K 5% 1/6W
R7D8	401K5719	R,CARBON 82K 5% 1/6W
R7D9	401K5709	R,CARBON 33K 5% 1/6W
R7E0	401K5709	R,CARBON 33K 5% 1/6W
R7E1	401K5709	R,CARBON 33K 5% 1/6W
R7E2	401K5695	R,CARBON 8.2K 5% 1/6W
R7E3	401K5695	R,CARBON 8.2K 5% 1/6W
R7E4	401K5695	R,CARBON 8.2K 5% 1/6W
R7E5	401K5697	R,CARBON 10K 5% 1/6W
R7E6	401K5697	R,CARBON 10K 5% 1/6W
R7E7	401K5697	R,CARBON 10K 5% 1/6W
R7E8	401K5697	R,CARBON 10K 5% 1/6W
R7F1	401K5697	R,CARBON 10K 5% 1/6W
R7F2	401K5697	R,CARBON 10K 5% 1/6W
R7F3	401K5697	R,CARBON 10K 5% 1/6W
R7F4	401J9820	RD16Z,0H,AT52
R7F5	401J9820	RD16Z,0H,AT52
R7F6	401K5733	R,CARBON 330K 5% 1/6W
R7F7	401K5733	R,CARBON 330K 5% 1/6W
R7F8	401K5733	R,CARBON 330K 5% 1/6W
R7G0	401K5661	R,CARBON 330H 5% 1/6W
R7G1	401K5649	R,CARBON 100H 5% 1/6W
R7G2	401K5681	R,CARBON 2.2K 5% 1/6W
R7G3	401K5681	R,CARBON 2.2K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R7G4	401K5687	R,CARBON 3.9K 5% 1/6W
R7G5	403F2151	R,METAL OXIDE 120H 5% 2W
R701	404C1646	R,METAL 75H 1% 1/6W
R702	404C1646	R,METAL 75H 1% 1/6W
R703	404C1646	R,METAL 75H 1% 1/6W
R704	404C1646	R,METAL 75H 1% 1/6W
R705	404C1646	R,METAL 75H 1% 1/6W
R706	404C1646	R,METAL 75H 1% 1/6W
R707	401K5685	R,CARBON 3.3K 5% 1/6W
R708	401K5697	R,CARBON 10K 5% 1/6W
R709	401K5685	R,CARBON 3.3K 5% 1/6W
R710	401K5697	R,CARBON 10K 5% 1/6W
R711	401K5685	R,CARBON 3.3K 5% 1/6W
R712	401K5697	R,CARBON 10K 5% 1/6W
R713	401K5685	R,CARBON 3.3K 5% 1/6W
R714	401K5697	R,CARBON 10K 5% 1/6W
R715	401K5685	R,CARBON 3.3K 5% 1/6W
R716	401K5697	R,CARBON 10K 5% 1/6W
R717	401K5685	R,CARBON 3.3K 5% 1/6W
R718	401K5697	R,CARBON 10K 5% 1/6W
R719	401K5653	R,CARBON 150H 5% 1/6W
R720	401K5653	R,CARBON 150H 5% 1/6W
R721	401K5653	R,CARBON 150H 5% 1/6W
R722	401K5653	R,CARBON 150H 5% 1/6W
R723	401K5653	R,CARBON 150H 5% 1/6W
R724	401K5653	R,CARBON 150H 5% 1/6W
R725	401H5661	R,CARBON 330H 5% 1/2W
R726	401H5661	R,CARBON 330H 5% 1/2W
R727	401H5661	R,CARBON 330H 5% 1/2W
R729	404C1597	R,METAL 10K 1% 1/6W
R730	401K5705	R,CARBON 22K 5% 1/6W
R731	401K5681	R,CARBON 2.2K 5% 1/6W
R732	401K5681	R,CARBON 2.2K 5% 1/6W
R734	401K5705	R,CARBON 22K 5% 1/6W
R735	401K5681	R,CARBON 2.2K 5% 1/6W
R736	401K5681	R,CARBON 2.2K 5% 1/6W
R737	401K5681	R,CARBON 2.2K 5% 1/6W
R738	401K5673	R,CARBON 1.0K 5% 1/6W
R739	401K5681	R,CARBON 2.2K 5% 1/6W
R741	401K5699	R,CARBON 12K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R742	401K5697	R,CARBON 10K 5% 1/6W
R743	401K5699	R,CARBON 12K 5% 1/6W
R744	401K5697	R,CARBON 10K 5% 1/6W
R745	401K5693	R,CARBON 6.8K 5% 1/6W
R750	401K5649	R,CARBON 100H 5% 1/6W
R751	401K5649	R,CARBON 100H 5% 1/6W
R752	401K5649	R,CARBON 100H 5% 1/6W
R756	401K5669	R,CARBON 680H 5% 1/6W
R757	401K5669	R,CARBON 680H 5% 1/6W
R758	401K5669	R,CARBON 680H 5% 1/6W
R760	401K5653	R,CARBON 150H 5% 1/6W
R761	401K5653	R,CARBON 150H 5% 1/6W
R762	401K5653	R,CARBON 150H 5% 1/6W
R763	401K5689	R,CARBON 4.7K 5% 1/6W
R764	401K5697	R,CARBON 10K 5% 1/6W
R765	401K5697	R,CARBON 10K 5% 1/6W
R766	401K5697	R,CARBON 10K 5% 1/6W
R767	401K5697	R,CARBON 10K 5% 1/6W
R768	401K5697	R,CARBON 10K 5% 1/6W
R769	401K5697	R,CARBON 10K 5% 1/6W
R772	401K5697	R,CARBON 10K 5% 1/6W
R773	401K5697	R,CARBON 10K 5% 1/6W
R774	401K5697	R,CARBON 10K 5% 1/6W
R775	401K5671	R,CARBON 820H 5% 1/6W
R776	401K5685	R,CARBON 3.3K 5% 1/6W
R777	401K5671	R,CARBON 820H 5% 1/6W
R778	401K5685	R,CARBON 3.3K 5% 1/6W
R779	401K5671	R,CARBON 820H 5% 1/6W
R780	401K5685	R,CARBON 3.3K 5% 1/6W
R781	401K5665	R,CARBON 470H 5% 1/6W
R782	401K5665	R,CARBON 470H 5% 1/6W
R783	401K5665	R,CARBON 470H 5% 1/6W
R784	401K5655	R,CARBON 180H 5% 1/6W
R785	401K5655	R,CARBON 180H 5% 1/6W
R786	401K5655	R,CARBON 180H 5% 1/6W
R787	401K5673	R,CARBON 1.0K 5% 1/6W
R788	401K5673	R,CARBON 1.0K 5% 1/6W
R789	401K5673	R,CARBON 1.0K 5% 1/6W
R790	401H5657	R,CARBON 220H 5% 1/2W
R791	401H5657	R,CARBON 220H 5% 1/2W

SYMBOL	PARTS NO	DESCRIPTION
R792	401H5657	R,CARBON 220H 5% 1/2W
R793	401K5679	R,CARBON 1.8K 5% 1/6W
R795	404C1653	R,METAL 150H 1% 1/6W
R796	404C1653	R,METAL 150H 1% 1/6W
R797	404C1653	R,METAL 150H 1% 1/6W
R8A1	401H5683	R,CARBON 2.7K 5% 1/2W
R8A2	401K5697	R,CARBON 10K 5% 1/6W
R8A3	401K5697	R,CARBON 10K 5% 1/6W
R8A4	401H5681	R,CARBON 2.2K 5% 1/2W
R8A5	401K5701	R,CARBON 15K 5% 1/6W
R8A6	401K5701	R,CARBON 15K 5% 1/6W
R8A7	401K5727	R,CARBON 180K 5% 1/6W
R8A8	401K5705	R,CARBON 22K 5% 1/6W
R8A9	401K5695	R,CARBON 8.2K 5% 1/6W
R8C0	401K5697	R,CARBON 10K 5% 1/6W
R8C1	401K5681	R,CARBON 2.2K 5% 1/6W
R8C2	401K5681	R,CARBON 2.2K 5% 1/6W
R8C3	401K5705	R,CARBON 22K 5% 1/6W
R8C4	401C6761	R,CARBON 4.7M 5% 1/4W
R8C5	401K5743	R,CARBON 820K 5% 1/6W
R8C6	401K5665	R,CARBON 470H 5% 1/6W
R8C7	401K5697	R,CARBON 10K 5% 1/6W
R8C8	401K5745	R,CARBON 1.0M 5% 1/6W
R8D0	401K5643	R,CARBON 56H 5% 1/6W
R8E0	401K5687	R,CARBON 3.9K 5% 1/6W
R8E1	401K5691	R,CARBON 5.6K 5% 1/6W
R8E2	404C1697	R,METAL 10K 1% 1/6W
R8E3	404C1697	R,METAL 10K 1% 1/6W
R8E4	403F2151	R,METAL OXIDE 120H 5% 2W
R8E5	403F2151	R,METAL OXIDE 120H 5% 2W
R8E6	401K5669	R,CARBON 680H 5% 1/6W
R8E7	401K5655	R,CARBON 180H 5% 1/6W
R8E8	403J9049	R,METAL 82H 5% 3W
R8F0	403F2103	R,METAL OXIDE 1.2H 5% 2W
R8F1	403F3137	R,METAL OXIDE 33H 5% 3W
R8F2	401K5715	R,CARBON 56K 5% 1/6W
R8F3	403F2109	R,METAL 2.2H 5% 2W
R8F4	401K5657	R,CARBON 220H 5% 1/6W
R8F5	403F2117	R,METAL OXIDE 4.7H 5% 2W
R8F6	403F1125	R,METAL OXIDE 10H 5% 1W

SYMBOL	PARTS NO	DESCRIPTION
R8F7	403F1135	R,METAL OXIDE 27H 5% 1W
R8F8	401K5697	R,CARBON 10K 5% 1/6W
R8F9	401J9820	RD15Z.0H,AT52
R8G0	401K5691	R,CARBON 5.6K 5% 1/6W
R8G1	401K5729	R,CARBON 220K 5% 1/6W
R8G2	401K5691	R,CARBON 5.6K 5% 1/6W
R8G3	401K5729	R,CARBON 220K 5% 1/6W
R8G4	401K5685	R,CARBON 3.3K 5% 1/6W
R8G5	401K5685	R,CARBON 3.3K 5% 1/6W
R8G6	401K5685	R,CARBON 3.3K 5% 1/6W
R8G7	401K5685	R,CARBON 3.3K 5% 1/6W
R8G8	401K5685	R,CARBON 3.3K 5% 1/6W
R8G9	401K5677	R,CARBON 1.5K 5% 1/6W
R8H0	401K5669	R,CARBON 680H 5% 1/6W
R8H1	401K5685	R,CARBON 3.3K 5% 1/6W
R8H2	401K5677	R,CARBON 1.5K 5% 1/6W
R8H3	401K5721	R,CARBON 100K 5% 1/6W
R8H4	401K5693	R,CARBON 6.8K 5% 1/6W
R8H5	401K5687	R,CARBON 3.9K 5% 1/6W
R8H6	401K5675	R,CARBON 1.2K 5% 1/6W
R8H7	401K5683	R,CARBON 2.7K 5% 1/6W
R8H8	401K5675	R,CARBON 1.2K 5% 1/6W
R8H9	401K5685	R,CARBON 3.3K 5% 1/6W
R8K0	401K5691	R,CARBON 5.6K 5% 1/6W
R8K1	401K5691	R,CARBON 5.6K 5% 1/6W
R8K2	401K5691	R,CARBON 5.6K 5% 1/6W
R8K3	401K5701	R,CARBON 15K 5% 1/6W
R8K4	401K5689	R,CARBON 4.7K 5% 1/6W
R8K5	401K5689	R,CARBON 4.7K 5% 1/6W
R8K6	401K5705	R,CARBON 22K 5% 1/6W
R8K7	401K5729	R,CARBON 220K 5% 1/6W
R8K8	401K5673	R,CARBON 1.0K 5% 1/6W
R8K9	401K5673	R,CARBON 1.0K 5% 1/6W
R8L0	401K5685	R,CARBON 3.3K 5% 1/6W
R8L2	401K5685	R,CARBON 3.3K 5% 1/6W
R8L3	401K5667	R,CARBON 560H 5% 1/6W
R801	401K5683	R,CARBON 2.7K 5% 1/6W
R802	401K5659	R,CARBON 270H 5% 1/6W
R803	401K5693	R,CARBON 6.8K 5% 1/6W
R805	401K5697	R,CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R805	401K5713	R,CARBON 47K 5% 1/6W
R807	401K5697	R,CARBON 10K 5% 1/6W
R808	401K5697	R,CARBON 10K 5% 1/6W
R809	401K5697	R,CARBON 10K 5% 1/6W
R810	401K5673	R,CARBON 1.0K 5% 1/6W
R811	401K5673	R,CARBON 1.0K 5% 1/6W
R816	401K5681	R,CARBON 2.2K 5% 1/6W
R817	401K5701	R,CARBON 15K 5% 1/6W
R818	401K5693	R,CARBON 6.8K 5% 1/6W
R832	401K5673	R,CARBON 1.0K 5% 1/6W
R834	401C6665	R,CARBON 470H 5% 1/4W
R835	401K5719	R,CARBON 82K 5% 1/6W
R836	401K5731	R,CARBON 270K 5% 1/6W
R837	401K5711	R,CARBON 39K 5% 1/6W
R838	404C1721	R,METAL 100K 1% 1/6W
R839	404C1724	R,METAL 130K 1% 1/6W
R840	404C1697	R,METAL 10K 1% 1/6W
R841	404C1721	R,METAL 100K 1% 1/6W
R842	404C1724	R,METAL 130K 1% 1/6W
R843	404C1697	R,METAL 10K 1% 1/6W
R844	404C1721	R,METAL 100K 1% 1/6W
R845	404C1724	R,METAL 130K 1% 1/6W
R846	404C1697	R,METAL 10K 1% 1/6W
R847	404C1721	R,METAL 100K 1% 1/6W
R848	404C1724	R,METAL 130K 1% 1/6W
R849	404C1697	R,METAL 10K 1% 1/6W
R850	401K5697	R,CARBON 10K 5% 1/6W
R851	401K5697	R,CARBON 10K 5% 1/6W
R852	401K5697	R,CARBON 10K 5% 1/6W
R853	401K5709	R,CARBON 33K 5% 1/6W
R854	401K5709	R,CARBON 33K 5% 1/6W
R855	401K5709	R,CARBON 33K 5% 1/6W
R856	401K5709	R,CARBON 33K 5% 1/6W
R857	401K5673	R,CARBON 1.0K 5% 1/6W
R858	401K5673	R,CARBON 1.0K 5% 1/6W
R859	401K5673	R,CARBON 1.0K 5% 1/6W
R85A	401K5673	R,CARBON 1.0K 5% 1/6W
R85C	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R860	404K5125	R,METAL 10H 5% 1/4W
R861	403F3159	R,METAL OXIDE 270H 5% 3W

SYMBOL	PARTS NO	DESCRIPTION
R862	401K5695	R,CARBON 8.2K 5% 1/6W
R863	401K5685	R,CARBON 3.3K 5% 1/6W
R864	401K5695	R,CARBON 8.2K 5% 1/6W
R865	401J9820	RD16Z.0H.AT52
R866	401K5689	R,CARBON 4.7K 5% 1/6W
R867	401K5697	R,CARBON 10K 5% 1/6W
R868	401K5697	R,CARBON 10K 5% 1/6W
R869	401K5695	R,CARBON 8.2K 5% 1/6W
R870	401K5683	R,CARBON 2.7K 5% 1/6W
R871	401K5673	R,CARBON 1.0K 5% 1/6W
R872	401K5685	R,CARBON 3.3K 5% 1/6W
R873	401K5673	R,CARBON 1.0K 5% 1/6W
R874	401K5697	R,CARBON 10K 5% 1/6W
R876	401K5683	R,CARBON 2.7K 5% 1/6W
R877	401K5673	R,CARBON 1.0K 5% 1/6W
R878	401K5673	R,CARBON 1.0K 5% 1/6W
R879	401K5673	R,CARBON 1.0K 5% 1/6W
R880	401K5673	R,CARBON 1.0K 5% 1/6W
R882	401K5673	R,CARBON 1.0K 5% 1/6W
R883	403F2149	R,METAL OXIDE 100H 5% 2W
R884	401K5697	R,CARBON 10K 5% 1/6W
R885	401K5709	R,CARBON 33K 5% 1/6W
R886	401K5699	R,CARBON 12K 5% 1/6W
R904	401H5645	R,CARBON 68H 5% 1/2W
R905	401H5645	R,CARBON 68H 5% 1/2W
R906	401H5645	R,CARBON 68H 5% 1/2W
R907	401K5697	R,CARBON 10K 5% 1/6W
R908	401K5749	R,CARBON 1.5M 5% 1/6W
R909	401K5633	R,CARBON 22H 5% 1/6W
R910	401K5649	R,CARBON 100H 5% 1/6W
R911	401C6689	R,CARBON 4.7K 5% 1/4W
R912	401K5737	R,CARBON 470K 5% 1/6W
R913	401K5697	R,CARBON 10K 5% 1/6W
R914	401K5713	R,CARBON 47K 5% 1/6W
R951	401K5697	R,CARBON 10K 5% 1/6W
R952	401K5697	R,CARBON 10K 5% 1/6W
R953	401K5723	R,CARBON 120K 5% 1/6W
R954	401K5713	R,CARBON 47K 5% 1/6W
R955	401K5709	R,CARBON 33K 5% 1/6W
R956	401K5673	R,CARBON 1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R957	401K5673	R,CARBON 1.0K 5% 1/6W
R958	401K5715	R,CARBON 56K 5% 1/6W
R959	401K5737	R,CARBON 470K 5% 1/6W
R960	401K5715	R,CARBON 56K 5% 1/6W
R961	401K5721	R,CARBON 100K 5% 1/6W
R962	401K5709	R,CARBON 33K 5% 1/6W
R964	401K5699	R,CARBON 12K 5% 1/6W
R965	401K5685	R,CARBON 3.3K 5% 1/6W
R966	401K5649	R,CARBON 100H 5% 1/6W
R967	403F3209	R,METAL OXIDE 33K 5% 3W
R968	403F3209	R,METAL OXIDE 33K 5% 3W
R970	401K5647	R,CARBON 82H 5% 1/6W
R971	401K5679	R,CARBON 1.8K 5% 1/6W
R974	401H5731	R,CARBON 270K 5% 1/2W
R975	401H5731	R,CARBON 270K 5% 1/2W
R976	401K5705	R,CARBON 22K 5% 1/6W
R978	401K5705	R,CARBON 22K 5% 1/6W
R979	401K5697	R,CARBON 10K 5% 1/6W
R980	401K5713	R,CARBON 47K 5% 1/6W
R981	401K5707	R,CARBON 27K 5% 1/6W
R982	401K5697	R,CARBON 10K 5% 1/6W
R983	401K5681	R,CARBON 2.2K 5% 1/6W
R984	401K5697	R,CARBON 10K 5% 1/6W
R985	401H5677	R,CARBON 1.5K 5% 1/2W
R986	401K5721	R,CARBON 100K 5% 1/6W
R987	401K5697	R,CARBON 10K 5% 1/6W
R989	401K5707	R,CARBON 27K 5% 1/6W

*** CAPACITORS ***

C200P	421D6013	C,CERAMIC 50V 0.1UF
⚠C2002	43086041	C,ELEC 25V 47UF
⚠C2004	43086029	C,ELEC 16V 100UF
⚠C2006	43086029	C,ELEC 16V 100UF
⚠C2008	43086066	C,ELEC 50V 22UF
C2021	421D6013	C,CERAMIC 50V 0.1UF
C2101	43089066	C,ELEC 50V 22UF
C401	421C0213	C,CERAMIC 50V 1000PF
C402	428B3021	C,METAL FILM 50V 0.47UF
C405	43089071	C,ELEC 50V 330UF
C406	421D6013	C,CERAMIC 50V 0.1UF

SYMBOL	PARTS NO	DESCRIPTION
C407	43089070	C,ELEC 50V 220UF
C408	43089061	C,ELEC 50V 1.0UF
C409	428D4317	C,METAL FILM 100V 0.22UF
C410	4303D183	C,ELEC 50V 1000UF
C411	43089054	C,ELEC 35V 100UF
C412	427F4011	C,FILM 50V 6800PF
C441	428B3013	C,METAL FILM 50V 0.1UF
C442	428B3013	C,METAL FILM 50V 0.1UF
C451	421A0425	C,CERAMIC 50V 0.01UF
C461	43086054	C,ELEC 35V 100UF
C462	43086065	C,ELEC 50V 10UF
C47P	421D6013	C,CERAMIC 50V 0.1UF
C471	421D6013	C,CERAMIC 50V 0.1UF
C472	43086041	C,ELEC 25V 47UF
C481	420C9563	C,CERAMIC 500V 1000PF
C482	43086536	C,ELEC 200V 10UF
C491	430C9154	C,ELEC 350V 3.3UF
C5A1	43086041	C,ELEC 25V 47UF
C5A2	427J9112	C,FILM 50V 1000PF
C5A3	427J9112	C,FILM 50V 1000PF
C5A4	43089041	C,ELEC 25V 47UF
C5A5	421D6013	C,CERAMIC 50V 0.1UF
⚠C5A6	42817102	C,METAL FILM 2.0KV 1900PF
⚠C5A8	428JJ115	C,METAL 1000V 0.047UF
C5A9	4303J222	C,ELEC 250V 2.2UF
C5C0	43086066	C,ELEC 50V 22UF
⚠C5D1	42703455	C,FILM 630V 2200PF
⚠C5D2	427F4059	C,FILM 50V 4700PF
⚠C5D3	428B3021	C,METAL FILM 50V 0.47UF
C5EA	427F4013	C,FILM 50V 0.01UF
C5EC	433A7013	C,ELEC 16V 47UF
C5EP	421D6013	C,CERAMIC 50V 0.1UF
⚠C5E0	43086065	C,ELEC 50V 10UF
⚠C5E2	423A2037	C,CERAMIC 50V 47PF
⚠C5E3	43089065	C,ELEC 50V 10UF
⚠C5E4	43089066	C,ELEC 50V 22UF
⚠C5E5	4309H106	C,ELEC 250V 22UF
⚠C5E6	427F4013	C,FILM 50V 0.01UF
⚠C5E7	43089039	C,ELEC 25V 22UF
⚠C5E8	428CJ022	C,METAL FILM 250V 0.1UF

SYMBOL	PARTS NO	DESCRIPTION
⚠C5E9	43086068	C,ELEC 50V 47UF
⚠C5FI	43086516	C,ELEC 160V 10UF
⚠C5GA	43088180	C,ELEC 50V 22UF
C5GC	43086066	C,ELEC 50V 22UF
C5GE	428CJ022	C,METAL FILM 250V 0.1UF
C5GO	423A2033	C,CERAMIC 50V 33PF
C5GI	421C0225	C,CERAMIC 50V 0.01UF
C5G2	427F4601	C,FILM 50V 1000PF
C5G3	423A1057	C,CERAMIC 50V 330PF
C5G4	43089066	C,ELEC 50V 22UF
C5G5	423A1101	C,CERAMIC 50V 470PF
C5G6	427F4021	C,FILM 50V 0.047UF
C5G7	43089552	C,ELEC 250V 1.0UF
C5G8	420C9563	C,CERAMIC 500V 1000PF
C5G9	43086039	C,ELEC 25V 22UF
C5HC	43086064	C,ELEC 50V 4.7UF
C5H1	43086064	C,ELEC 50V 4.7UF
C5H2	43086065	C,ELEC 50V 10UF
C5H5	4303J224	C,ELEC 250V 4.7UF
C5H7	427F4621	C,FILM 50V 0.047UF
C5H8	427F4621	C,FILM 50V 0.047UF
C5H9	4309H105	C,ELEC 200V 4.7UF
⚠C5MC	433A4025	C,ELEC 16V 47UF
C5M0	423A1101	C,CERAMIC 50V 470PF
C5M1	43089066	C,ELEC 50V 22UF
C5M2	427F4025	C,FILM 50V 0.1UF
C5M4	427F4621	C,FILM 50V 0.047UF
C5M5	423A2103	C,CERAMIC 50V 180PF
C5M6	4303J222	C,ELEC 250V 2.2UF
C5M7	43086065	C,ELEC 50V 10UF
C5M8	427F4621	C,FILM 50V 0.047UF
C5M9	4303J222	C,ELEC 250V 2.2UF
C5P1	421C0205	C,CERAMIC 50V 220PF
C5S1	421D6009	C,CERAMIC 25V 0.1UF
C5S2	43086063	C,ELEC 50V 3.3UF
C5S3	433A3033	C,ELEC 25V 10UF
C5S4	43086041	C,ELEC 25V 47UF
C5S5	43086041	C,ELEC 25V 47UF
C5S6	43086030	C,ELEC 16V 220UF
C5S7	43086030	C,ELEC 16V 220UF

SYMBOL	PARTS NO	DESCRIPTION
C57A	421A0425	C,CERAMIC 50V 0.01UF
C57C	43086041	C,ELEC 25V 47UF
C57P	421D6013	C,CERAMIC 50V 0.1UF
C571	43086069	C,ELEC 50V 100UF
C572	43086066	C,ELEC 50V 22UF
C574	420C9567	C,CERAMIC 500V 2200PF
⚠C577	427J3675	C,FILM 200V 0.1UF
C578	427F4651	C,FILM 50V 1000PF
⚠C581	42817101	C,METAL 1600V 1500PF
⚠C582	42817201	C,METAL 1600V 6200PF
C583	431980C2	C,ELEC 200V 47UF
⚠C59A	42839602	C,METAL 400V 0.12UF
⚠C59C	42839708	C,METAL 400V 0.33UF 5%
C59E	421D6009	C,CERAMIC 25V 0.1UF
C59F	421D6009	C,CERAMIC 25V 0.1UF
C59G	421D6009	C,CERAMIC 25V 0.1UF
C59H	421D6009	C,CERAMIC 25V 0.1UF
C59K	421D6009	C,CERAMIC 25V 0.1UF
⚠C59L	43089552	C,ELEC 250V 1.0UF
C59M	421D6009	C,CERAMIC 25V 0.1UF
C59N	427F4613	C,FILM 50V 0.01UF
C59O	43086096	C,ELEC 100V 3.3UF
⚠C591	420C9563	C,CERAMIC 500V 1000PF
⚠C592	420C9563	C,CERAMIC 500V 1000PF
⚠C593	420C9563	C,CERAMIC 500V 1000PF
⚠C595	42839631	C,METAL FILM 400V 0.6UF
⚠C596	42839631	C,METAL FILM 400V 0.6UF
⚠C597	42839618	C,METAL 400V 0.68UF 5%
⚠C598	42839605	C,METAL 400V 0.24UF
⚠C599	42839601	C,METAL 400V 0.1UF
C601	42898002	C,FILM AC250V 0.47UF
C602	42899098	C,FILM 250V 0.1UF
C603	42053069	C,CERAMIC 400V 3300PF
C604	42053069	C,CERAMIC 400V 3300PF
C605	43109493	C,ELEC 400V 470UF
C606	42883013	C,METAL FILM 50V 0.1UF
C607	42099096	C,CERAMIC 2KV 470PF
C609	42053071	C,CERAMIC 400V 4700PF
C610	42840225	C,METAL 630V 0.022UF
C611	42099088	C,CERAMIC 2KV 220PF

SYMBOL	PARTS NO	DESCRIPTION
C5S8	421D6009	C,CERAMIC 25V 0.1UF
C5S9	421D6009	C,CERAMIC 25V 0.1UF
C5T0	421D6009	C,CERAMIC 25V 0.1UF
C5T1	421D6009	C,CERAMIC 25V 0.1UF
C5T2	421D6009	C,CERAMIC 25V 0.1UF
C5X0	421D6009	C,CERAMIC 25V 0.1UF
C5X1	421J9036	C,CERAMIC 25V 0.1UF
C5X2	43086041	C,ELEC 25V 47UF
C5X3	43086064	C,ELEC 50V 4.7UF
C60A	421D6013	C,CERAMIC 50V 0.1UF
C60C	42883025	C,METAL FILM 50V 1.0UF
C60R	421D6013	C,CERAMIC 50V 0.1UF
C60S	421D6013	C,CERAMIC 50V 0.1UF
C60O	427F4013	C,FILM 50V 0.01UF
C601	43086064	C,ELEC 50V 4.7UF
C602	423A2103	C,CERAMIC 50V 180PF
C603	43089017	C,ELEC 10V 220UF
C604	421D6009	C,CERAMIC 25V 0.1UF
C605	423A2033	C,CERAMIC 50V 33PF
C607	421D6013	C,CERAMIC 50V 0.1UF
C608	43086030	C,ELEC 16V 220UF
C609	423A1045	C,CERAMIC 50V 100PF
C610	421D6013	C,CERAMIC 50V 0.1UF
C611	421D6013	C,CERAMIC 50V 0.1UF
C612	423A2103	C,CERAMIC 50V 180PF
C613	423A2105	C,CERAMIC 50V 270PF
C614	427F4651	C,FILM 50V 1000PF
C615	427F4603	C,FILM 50V 1500PF
C616	435A8307	C,TANTALUM 35V 1.0UF
C617	427A7005	C,FILM 100V 0.0022UF
C618	427F4014	C,FILM 50V 0.012UF
C619	43086061	C,ELEC 50V 1.0UF
C651	421A0425	C,CERAMIC 50V 0.01UF
C652	427F4610	C,FILM 50V 560PF
C653	421A0425	C,CERAMIC 50V 0.01UF
C654	423A2045	C,CERAMIC 50V 100PF
C655	421A0425	C,CERAMIC 50V 0.01UF
C656	423A2045	C,CERAMIC 50V 100PF
C657	421D6013	C,CERAMIC 50V 0.1UF
C660	421D6013	C,CERAMIC 50V 0.1UF

SYMBOL	PARTS NO	DESCRIPTION
C612	43089065	C,ELEC 50V 10UF
C613	42883101	C,METAL FILM 50V 0.010UF
C614	42099096	C,CERAMIC 2KV 470PF
C615	43089065	C,ELEC 50V 10UF
C616	423A1100	C,CERAMIC 50V 390PF
C617	42053071	C,CERAMIC 400V 4700PF
C618	42099088	C,CERAMIC 2KV 220PF
C619	42899098	C,FILM 250V 0.1UF
C651	42099095	C,CERAMIC 2KV 330PF
C652	4302J105	C,ELEC 100V 47CUF
C653	4302J559	C,ELEC 250V 47UF
C654	42809001	C,METAL FILM 100V 0.01UF
C655	42099095	C,CERAMIC 2KV 330PF
C656	4304A013	C,ELEC 160V 100UF
C657	4304A013	C,ELEC 160V 100UF
C658	42099086	C,CERAMIC 2KV 1000PF
C659	4302J059	C,ELEC 35V 2200UF
C660	43089057	C,ELEC 35V 470UF
C661	427F4624	C,FILM 50V 0.082UF
C662	42883013	C,METAL FILM 50V 0.1UF
C663	4302J059	C,ELEC 35V 2200UF
C664	42799057	C,FILM 100V 3300PF
C665	43089053	C,ELEC 35V 47UF
C666	428DC053	C,METAL 100V 0.1UF
C667	428DC053	C,METAL 100V 0.1UF
C669	4304A013	C,ELEC 160V 100UF
C7A0	429DC097	C,FILM 250V 0.22UF
C7A1	429DC097	C,FILM 250V 0.22UF
C7A2	429DC097	C,FILM 250V 0.22UF
C7A3	43089512	C,ELEC 160V 1.0UF
C7A4	43089512	C,ELEC 160V 1.0UF
C7A5	43089512	C,ELEC 160V 1.0UF
C7A6	420C9563	C,CERAMIC 500V 1000PF
C7A7	420C9563	C,CERAMIC 500V 1000PF
C7A8	420C9563	C,CERAMIC 500V 1000PF
C7C0	433A6045	C,ELEC 16V 22UF
C7C1	433A6045	C,ELEC 16V 22UF
C7C2	433A6045	C,ELEC 16V 22UF
C7C3	433A6045	C,ELEC 16V 22UF
C7C4	433A6045	C,ELEC 16V 22UF

SYMBOL	PARTS NO	DESCRIPTION
C7C5	433A6045	C,ELEC 16V 22UF
C7C6	430BJ518	C,ELEC 160V 33UF
C7D1	423A2015	C,CERAMIC 50V 10PF
C7D2	423A2015	C,CERAMIC 50V 10PF
C7D3	423A2015	C,CERAMIC 50V 10PF
C7D4	421C0225	C,CERAMIC 50V 0.01UF
C7D5	421C0225	C,CERAMIC 50V 0.01UF
C7D6	421C0225	C,CERAMIC 50V 0.01UF
C7D7	430B9552	C,ELEC 250V 1.0UF
C7E0	430B6065	C,ELEC 50V 10UF
C7E1	430B6065	C,ELEC 50V 10UF
C7E2	430B6065	C,ELEC 50V 10UF
C7E5	421D6009	C,CERAMIC 25V 0.1UF
C7E6	421D6009	C,CERAMIC 25V 0.1UF
C7E7	421D6009	C,CERAMIC 25V 0.1UF
C7E8	421D6009	C,CERAMIC 25V 0.1UF
C7E9	420C9569	C,CERAMIC 50V 3300PF
C7F0	421D6009	C,CERAMIC 25V 0.1UF
C7F1	421D6009	C,CERAMIC 25V 0.1UF
C7F2	421D6009	C,CERAMIC 25V 0.1UF
C7G1	433A6045	C,ELEC 16V 22UF
C7G2	433A6045	C,ELEC 16V 22UF
C7G3	433A6045	C,ELEC 16V 22UF
C7G4	433A6045	C,ELEC 16V 22UF
C7G5	433A6045	C,ELEC 16V 22UF
C7G6	433A6045	C,ELEC 16V 22UF
C7G7	421C0225	C,CERAMIC 50V 0.01UF
C7G8	421C0225	C,CERAMIC 50V 0.01UF
C7G9	421C0225	C,CERAMIC 50V 0.01UF
C7H0	430B8144	C,ELEC 16V 47UF
C7H1	421D6009	C,CERAMIC 25V 0.1UF
C7H5	430B8144	C,ELEC 16V 47UF
C7H6	421D6009	C,CERAMIC 25V 0.1UF
C7H7	423A1045	C,CERAMIC 50V 100PF
C7H8	421C0225	C,CERAMIC 50V 0.01UF
C7H9	421C0225	C,CERAMIC 50V 0.01UF
C720	421C0225	C,CERAMIC 50V 0.01UF

SYMBOL	PARTS NO	DESCRIPTION
C722	430B6041	C,ELEC 25V 47UF
C724	430B6032	C,ELEC 16V 470UF
C725	430B6032	C,ELEC 16V 470UF
C726	430B6032	C,ELEC 16V 470UF
C727	430B6065	C,ELEC 50V 10UF
C728	430B6065	C,ELEC 50V 10UF
C729	430B6065	C,ELEC 50V 10UF
C730	430B6065	C,ELEC 50V 10UF
C731	430B6065	C,ELEC 50V 10UF
C732	430B6065	C,ELEC 50V 10UF
C733	430B6029	C,ELEC 16V 100UF
C734	430B6029	C,ELEC 16V 100UF
C735	430B6029	C,ELEC 16V 100UF
C736	430B6032	C,ELEC 16V 470UF
C737	421C0219	C,CERAMIC 50V 3300PF
C738	421C0219	C,CERAMIC 50V 3300PF
C739	421C0219	C,CERAMIC 50V 3300PF
C741	430B6041	C,ELEC 25V 47UF
C750	430B9032	C,ELEC 16V 470UF
C751	430B9032	C,ELEC 16V 470UF
C752	430B9032	C,ELEC 16V 470UF
C753	421D6009	C,CERAMIC 25V 0.1UF
C754	421D6009	C,CERAMIC 25V 0.1UF
C755	421D6009	C,CERAMIC 25V 0.1UF
C756	430B6065	C,ELEC 50V 10UF
C757	430B6065	C,ELEC 50V 10UF
C758	430B6065	C,ELEC 50V 10UF
C759	421C0225	C,CERAMIC 50V 0.01UF
C760	421C0225	C,CERAMIC 50V 0.01UF
C761	421C0225	C,CERAMIC 50V 0.01UF
C762	421C0213	C,CERAMIC 50V 1000PF
C763	421C0213	C,CERAMIC 50V 1000PF
C764	421C0213	C,CERAMIC 50V 1000PF
C765	430B9026	C,ELEC 16V 22UF
C766	430B9026	C,ELEC 16V 22UF
C767	430B9026	C,ELEC 16V 22UF
C768	421C0225	C,CERAMIC 50V 0.01UF
C769	421C0225	C,CERAMIC 50V 0.01UF
C770	421C0225	C,CERAMIC 50V 0.01UF
C771	430B3104	C,ELEC 50V 3.3UF

SYMBOL	PARTS NO	DESCRIPTION
C772	430B3104	C,ELEC 50V 3.3UF
C773	430B3104	C,ELEC 50V 3.3UF
C774	430C8423	C,ELEC 16V 470UF
C775	430C8423	C,ELEC 16V 470UF
C776	430C8423	C,ELEC 16V 470UF
C777	421C0213	C,CERAMIC 50V 1000PF
C778	421C0213	C,CERAMIC 50V 1000PF
C779	421C0213	C,CERAMIC 50V 1000PF
C780	430B6041	C,ELEC 25V 47UF
C781	423A2041	C,CERAMIC 50V 68PF
C782	423A2041	C,CERAMIC 50V 68PF
C783	423A2041	C,CERAMIC 50V 68PF
C784	421C0225	C,CERAMIC 50V 0.01UF
C785	421C0225	C,CERAMIC 50V 0.01UF
C786	421C0225	C,CERAMIC 50V 0.01UF
C787	423A2035	C,CERAMIC 50V 39PF
C788	423A2035	C,CERAMIC 50V 39PF
C789	423A2035	C,CERAMIC 50V 39PF
C790	421C0225	C,CERAMIC 50V 0.01UF
C791	421C0225	C,CERAMIC 50V 0.01UF
C792	421C0225	C,CERAMIC 50V 0.01UF
C793	430B9513	C,ELEC 160V 2.2UF
C794	430B9513	C,ELEC 160V 2.2UF
C795	430B9513	C,ELEC 160V 2.2UF
C796	420C9569	C,CERAMIC 50V 3300PF
C797	420C9569	C,CERAMIC 50V 3300PF
C798	420C9569	C,CERAMIC 50V 3300PF
C8A1	423A1028	C,CERAMIC 50V 20PF
C8A2	428B3025	C,METAL FILM 50V 1.0UF
C8A3	430B2175	C,ELEC 50V 220UF
C8A4	430B2175	C,ELEC 50V 220UF
C8A5	427F4013	C,FILM 50V 0.01UF
C8A6	427F4004	C,FILM 50V 1800PF
C8A7	427F4009	C,FILM 50V 4700PF
C8A8	421D6009	C,CERAMIC 25V 0.1UF
C8A9	421C0213	C,CERAMIC 50V 1000PF
C8C1	430C2105	C,ELEC 25V 470UF
C8C2	430C2105	C,ELEC 25V 470UF
C8C3	430B9031	C,ELEC 16V 330UF
C8C4	432K6011	C,ELEC 10V 220UF

SYMBOL	PARTS NO	DESCRIPTION
C8C5	430J8109	C,ELEC 16V 47UF
C8C7	421D6013	C,CERAMIC 50V 0.1UF
C8C8	421D6013	C,CERAMIC 50V 0.1UF
C8C9	430B9017	C,ELEC 10V 220UF
C8D0	427F4605	C,FILM 50V 2200PF
C8D1	428B3025	C,METAL FILM 50V 1.0UF
C8F0	432K6208	C,ELEC 63V 33UF
C8G0	428B3013	C,METAL FILM 50V 0.1UF
C8G1	433A4056	C,ELEC 50V 22UF
C8G2	428B3013	C,METAL FILM 50V 0.1UF
C8G3	433A4056	C,ELEC 50V 22UF
C8G4	430B6065	C,ELEC 50V 10UF
C8G8	430B6064	C,ELEC 50V 4.7UF
C8G9	423A1057	C,CERAMIC 50V 330PF
C8H0	427F4009	C,FILM 50V 4700PF
C8H1	433A4056	C,ELEC 50V 22UF
C8H2	430B6064	C,ELEC 50V 4.7UF
C8H3	430B6221	C,ELEC 50V 0.1UF
C8H4	433A3058	C,ELEC 50V 4.7UF
C8H5	430B6065	C,ELEC 50V 10UF
C8H6	430B6064	C,ELEC 50V 4.7UF
C8H7	421D6009	C,CERAMIC 25V 0.1UF
C8H8	430B6041	C,ELEC 25V 47UF
C8H9	430B6061	C,ELEC 50V 1.0UF
C8K0	423A1057	C,CERAMIC 50V 330PF
C8K1	423A1057	C,CERAMIC 50V 330PF
C8K2	423A1057	C,CERAMIC 50V 330PF
C8K3	421D6009	C,CERAMIC 25V 0.1UF
C8K4	421D6009	C,CERAMIC 25V 0.1UF
C8K5	423A1101	C,CERAMIC 50V 470PF
C8K6	430B6065	C,ELEC 50V 10UF
C8K7	421D6009	C,CERAMIC 25V 0.1UF
C8K8	421D6009	C,CERAMIC 25V 0.1UF
C8K9	421D6009	C,CERAMIC 25V 0.1UF
C8L0	430B6060	C,ELEC 50V 0.47UF
C8L1	430B6017	C,ELEC 10V 220UF
C8L2	421D6009	C,CERAMIC 25V 0.1UF
C8L3	430B8152	C,ELEC 25V 10UF
C8L4	423A2015	C,CERAMIC 50V 10PF
C8L5	423A2015	C,CERAMIC 50V 10PF

SYMBOL	PARTS NO	DESCRIPTION
C810	421A0425	C,CERAMIC 50V 0.01UF
C811	421A0425	C,CERAMIC 50V 0.01UF
C820	423A2025	C,CERAMIC 50V 15PF
C826	421D6009	C,CERAMIC 25V 0.1UF
C827	421D6009	C,CERAMIC 25V 0.1UF
C829	421D6009	C,CERAMIC 25V 0.1UF
C830	421D6009	C,CERAMIC 25V 0.1UF
C831	43089017	C,ELEC 10V 220UF
C832	43CC0253	C,ELEC 25V 22UF
C833	43088135	C,ELEC 10V 220UF
C834	421D6009	C,CERAMIC 25V 0.1UF
C835	421D6009	C,CERAMIC 25V 0.1UF
C86A	421C3461	C,CERAMIC 16V 0.01UF
C86C	421C3461	C,CERAMIC 16V 0.01UF
C861	43089025	C,ELEC 16V 10UF
C862	43089041	C,ELEC 25V 47UF
C863	43089016	C,ELEC 10V 100UF
C864	421D6009	C,CERAMIC 25V 0.1UF
C865	421D6009	C,CERAMIC 25V 0.1UF
C866	433A7031	C,ELEC 35V 4.7UF
C867	421C0213	C,CERAMIC 50V 1000PF
C868	421D6009	C,CERAMIC 25V 0.1UF
C869	421D6009	C,CERAMIC 25V 0.1UF
C870	421D6009	C,CERAMIC 25V 0.1UF
C871	43086065	C,ELEC 50V 10UF
C901	4203J575	C,CERAMIC 500V 0.01UF
C903	42003551	C,CERAMIC 500V 100PF
C904	42003563	C,CERAMIC 500V 1000PF
C905	42040108	C,CERAMIC 2KV 0.01UF
C907	42300097	C,FILM 250V 0.22UF
C951	427F4013	C,FILM 50V 0.01UF
C952	43089028	C,ELEC 16V 47UF
C953	43089028	C,ELEC 16V 47UF
C955	427F4675	C,FILM 50V 0.1UF
C956	427F4675	C,FILM 50V 0.1UF
C957	427F4013	C,FILM 50V 0.01UF
C958	421D6009	C,CERAMIC 25V 0.1UF
C959	423A1103	C,CERAMIC 50V 560PF
C960	42808501	C,METAL FILM 1.6KV 1000PF
C961	43089028	C,ELEC 16V 47UF

SYMBOL	PARTS NO	DESCRIPTION
C962	423A1101	C,CERAMIC 50V 470PF
C963	427F4675	C,FILM 50V 0.1UF
C964	428JJ115	C,METAL 1000V 0.047UF
C965	421D6009	C,CERAMIC 25V 0.1UF
C966	423A2045	C,CERAMIC 50V 100PF
C967	43089025	C,ELEC 16V 10UF
C968	43089025	C,ELEC 16V 10UF
C969	43086029	C,ELEC 16V 100UF

REPLACEMENT PARTS LIST

The components specified Model JC-1742UMA

Note: The components identified by ⚠ make are critical for safety.
Replace only with parts Number specified.

SYMBOL	PARTS NO	DESCRIPTION
***	CRT & TUNER	***
⚠CRT	33017502	CRT AF17G9SL822-E-TC06
***	ICS	***
⚠IC2001	37011132	IC UPC4082C (OP-AMP)
⚠IC2002	37011132	IC UPC4082C (OP-AMP)
IC401	37056887	IC TDA1675A
IC402	37011024	IC UPC3403C (OP-AMP)
IC431	37051036	MOS UPD4066BC
IC471	37011206	IC XRA10358 (OP-AMP)
IC5A1	37053390	MOS HD74HC123AP
⚠IC5E1	370A1009	IC UPC1093J-T (REG)
⚠IC5E2	37011252	IC XRA10393 (COMP)
IC5G0	37011262	IC XRA10393 (COMP)
IC5G1	37011024	IC UPC3403C (OP-AMP)
IC5S1	37056618	IC BA6110
IC5S2	37011206	IC XRA10358 (OP-AMP)
IC5S3	37011210	IC XRA10324 (Q OP-AMP)
IC5S4	37011210	IC XRA10324 (Q OP-AMP)
IC5S5	37056877	IC NJM4200D (MULTIPLIER)
⚠IC501	37056295	IC LA7851
IC502	37051179	IC SN74LS123N (MONO MLT)
IC503	37011018	IC UPC311C (COMP)
IC504	37011210	IC XRA10324 (Q OP-AMP)
IC505	37051036	MOS UPD4066BC
IC506	37011206	IC XRA10358 (OP-AMP)
IC509	37011206	IC XRA10358 (OP-AMP)
IC510	37101543	IC XRA10339
IC511	37101543	IC XRA10339
IC571	37056885	IC NJM3404AD
IC601	37056810	IC M67297 (SW.REG CONT)
IC701	37056814	IC M52035P
IC702	37056433	IC M51399P
IC7C3	37056433	IC M51399P
IC704	37056433	IC M51399P
IC705	37056905	IC VPA12H
IC706	37056905	IC VPA12H
IC707	37056905	IC VPA12H
IC8A1	37056885	IC NJM3404AD

SYMBOL	PARTS NO	DESCRIPTION
IC8A2	37011262	IC XRA10393 (COMP)
IC8G0	37011018	IC UPC311C (COMP)
IC8G1	37011262	IC XRA10393 (COMP)
IC8G2	37011018	IC UPC311C (COMP)
IC8G3	37056867	IC M52036SP
IC8G4	37051179	IC SN74LS123N (MONO MLT)
IC8G5	37051096	IC SN74LS367AN (BUFF)
IC801	37056915	IC UPD78C12AGQ-A66-36
IC802	37056813	IC M62359P
IC803	37051042	MOS UPD4028BC (BCD DEC!)
IC804	37055401	MOS XRM93C568-E
IC805	37053036	MOS SN74HC32N (OR)
IC806	37011210	IC XRA10324 (Q OP-AMP)
IC807	37011210	IC XRA10324 (Q OP-AMP)
IC808	37011210	IC XRA10324 (Q OP-AMP)
IC809	37011206	IC XRA10358 (OP-AMP)
IC810	37011206	IC XRA10358 (OP-AMP)
IC811	370E6005	IC PST518A
IC860	37056812	IC M62362P
IC861	37056812	IC M62362P
IC862	37011210	IC XRA10324 (Q OP-AMP)
IC863	37011206	IC XRA10358 (OP-AMP)
IC864	37011210	IC XRA10324 (Q OP-AMP)
IC951	37011206	IC XRA10358 (OP-AMP)
IC952	37056618	IC BA6110
***	TRANSISTORS	***
CR601	35595014	TRIAC AC10DGM
⚠Q2001	350K4518	TR 2SA933-T R
⚠Q2002	350E3218	TR 2SC1740S-T R
⚠Q2005	351G0601	TR DTC114ES-T
⚠Q2006	351G0601	TR DTC114ES-T
Q2101	351G0655	TR DTC143ES-TP
Q421	350E3218	TR 2SC1740S-T R
Q422	351A0690	TR DTC115ES-TP
Q423	351A0690	TR DTC115ES-TP
Q424	351A0690	TR DTC115ES-TP
Q425	351A0690	TR DTC115ES-TP
Q451	350252!!	TR 2SB546 K

SYMBOL	PARTS NO	DESCRIPTION
Q452	35063411	TR,2SD401A K
Q461	35065416	TR,2SD882 P
Q462	350E3218	TR 2SC1740S-T R
Q471	35065416	TR,2SD882 P
Q481	35056311	TR 2SC2688 K
Q482	35058905	TR,2SC1841 E
Q5A1	350H5018	TR,2SC3811-TA R
Q5A2	35050918	TR 2SC1384 R
Q5A3	350K4412	TR 2SA952 L,AT
⚠Q5A4	35122800	TR 2SK1271
⚠Q5A5	35122800	TR 2SK1271
⚠Q5E0	351G0602	TR DTC144ES-T
⚠Q5E1	35050918	TR 2SC1384 R
⚠Q5E2	350K4411	TR 2SA952 K,AT
⚠Q5E3	35126900	TR 2SK806
⚠Q5E4	351G0553	TR DTA143ES-T
Q5G0	351G0601	TR DTC114ES-T
Q5G1	350K5718	TR 2SA933S-T R
Q5G2	350E3218	TR 2SC1740S-T R
Q5G3	350K5718	TR 2SA933S-T R
Q5G4	350E3218	TR 2SC1740S-T R
Q5G5	350K4518	TR 2SA933-T R
Q5G6	35122500	TR 2SK758
Q5M0	350K5718	TR 2SA933S-T R
Q5M1	350E3218	TR 2SC1740S-T R
Q5M2	350K4518	TR 2SA933-T R
Q5M3	35122500	TR 2SK758
⚠Q5M4	350A1500	TR 2SA1767-TA
Q5R0	351G0601	TR DTC114ES-T
Q5R1	351G0655	TR DTC143ES-TP
Q5R2	350H5018	TR,2SC3811-TA R
Q5R3	350E3218	TR 2SC1740S-T R
Q5R4	350K4518	TR 2SA933-T R
Q5S1	350K5718	TR 2SA933S-T R
Q50A	351G0602	TR DTC144ES-T
Q501	350K4518	TR 2SA933-T R
Q502	350H5018	TR,2SC3811-TA R
Q51A	351G0602	TR DTC144ES-T
Q52A	351G0602	TR DTC144ES-T

SYMBOL	PARTS NO	DESCRIPTION
Q53A	351G0602	TR DTC144ES-T
Q54A	351G0602	TR DTC144ES-T
Q55A	351G0602	TR DTC144ES-T
Q56A	351G0560	TR DTA144WS-T
Q56C	351G0560	TR DTA144WS-T
Q56E	350K4518	TR 2SA933-T R
Q571	35025212	TR 2SB546 L
Q572	350E3218	TR 2SC1740S-T R
Q573	350K4518	TR 2SA933-T R
Q574	35122500	TR 2SK758
Q58A	351G0602	TR DTC144ES-T
⚠Q581	35094300	TR 2SC3998
Q59A	351G0560	TR DTA144WS-T
Q59C	351G0602	TR DTC144ES-T
Q59E	351G0560	TR DTA144WS-T
Q59F	351G0602	TR DTC144ES-T
Q591	35125700	TR 2SK947
Q592	35125700	TR 2SK947
Q593	35125700	TR 2SK947
Q594	35125700	TR 2SK947
Q595	35125700	TR 2SK947
Q596	35125700	TR 2SK947
Q601	35125900	TR,2SK1411
Q651	35053012	TR 2SC1941 L
Q652	350E3218	TR 2SC1740S-T R
Q653	350E3218	TR 2SC1740S-T R
Q654	351G0653	TR DTC123ES-T
Q700	350H5017	TR,2SC3811-TA Q
Q701	350H1811	TR,2SC2901 K-T
Q702	350H1811	TR,2SC2901 K-T
Q703	350H1811	TR,2SC2901 K-T
Q704	350H1811	TR,2SC2901 K-T
Q705	350H1811	TR,2SC2901 K-T
Q706	350H1811	TR,2SC2901 K-T
Q707	351G0601	TR DTC114ES-T
Q708	351G0600	TR DTA114ES-T
Q709	351G0601	TR DTC114ES-T
Q710	350H1811	TR,2SC2901 K-T
Q711	350K5718	TR 2SA933S-T R
Q712	350K5718	TR 2SA933S-T R

SYMBOL	PARTS NO	DESCRIPTION
Q713	350K5718	TR 2SA933S-T R
Q714	350E3218	TR 2SC1740S-T R
Q715	350E3218	TR 2SC1740S-T R
Q716	350E3218	TR 2SC1740S-T R
Q717	351G0602	TR DTC144ES-T
Q718	351G0602	TR DTC144ES-T
Q719	351G0601	TR DTC114ES-T
Q723	35080200	TR 2SC2407/2407A
Q724	35080200	TR 2SC2407/2407A
Q725	35080200	TR 2SC2407/2407A
Q726	350H1811	TR,2SC2901 K-T
Q727	350H1811	TR,2SC2901 K-T
Q728	350H1811	TR,2SC2901 K-T
Q731	350H1811	TR,2SC2901 K-T
Q732	350K7500	TR 2SA1206-T
Q733	350H1811	TR,2SC2901 K-T
Q734	351G0601	TR DTC114ES-T
Q740	350H4417	TR,2SC1473-TA Q
Q741	350H4417	TR,2SC1473-TA Q
Q742	350H4417	TR,2SC1473-TA Q
Q743	350K5217	TR,2SA1018-TA Q
Q744	350K5217	TR,2SA1018-TA Q
Q745	350K5217	TR,2SA1018-TA Q
Q8A1	35065416	TR,2SD882 P
Q8A2	350E3218	TR 2SC1740S-T R
Q8A3	350K5718	TR 2SA933S-T R
Q8A4	350E3218	TR 2SC1740S-T R
Q8A5	351G0501	TR DTC114ES-T
Q8A6	350E3218	TR 2SC1740S-T R
Q8A7	350K5718	TR 2SA933S-T R
Q8A8	350E3218	TR 2SC1740S-T R
Q8A9	35122600	TR 2SK701
Q8C0	35065416	TR,2SD882 P
Q8G0	351G0600	TR DTA114ES-T
Q8G1	351G0600	TR DTA114ES-T
Q8G2	351G0601	TR DTC114ES-T
Q8G3	351G0602	TR DTC144ES-T
Q8G4	351G0601	TR DTC114ES-T
Q801	351G0641	TR DTC114YS-T
Q802	351G0601	TR DTC114ES-T

SYMBOL	PARTS NO	DESCRIPTION
Q803	351G0601	TR DTC114ES-T
Q804	351G0601	TR DTC114ES-T
Q805	351G0601	TR DTC114ES-T
Q806	350H5018	TR,2SC3811-TA R
Q807	350E3218	TR 2SC1740S-T R
Q860	35560416	TR 2SD794A P
Q861	350E3218	TR 2SC1740S-T R
Q862	350E3218	TR 2SC1740S-T R
Q863	350K5718	TR 2SA933S-T R
Q864	350K5718	TR 2SA933S-T R
Q951	350K5718	TR 2SA933S-T R
Q952	350E3218	TR 2SC1740S-T R
Q953	35094200	TR 2SC4572
Q954	350K4311	TR 2SA953-T K
Q955	35094200	TR 2SC4572
Q956	35011600	TR 2SA1831
Q957	350E3218	TR 2SC1740S-T R
Q958	35084600	TR,2SC3675

*** DIODES ***

D101	360K1027	DIODE 1SS132
D102	360K1027	DIODE 1SS132
D103	360K1027	DIODE 1SS132
D104	360K1027	DIODE 1SS132
D105	360K1027	DIODE 1SS132
D106	360K1027	DIODE 1SS132
D107	360K1027	DIODE 1SS132
D108	360K1027	DIODE 1SS132
D109	360K1027	DIODE 1SS132
D110	360K1027	DIODE 1SS132
D111	360K1027	DIODE 1SS132
D112	360K1027	DIODE 1SS132
D113	360K1027	DIODE 1SS132
D114	360K1027	DIODE 1SS132
D115	360K1027	DIODE 1SS132
D116	360K1027	DIODE 1SS132
D120	36801340	LED SLR-34MC3F
D121	36801343	LED SLA-57DMT3F(XJ,XK,XL)
D122	36801343	LED SLA-57DMT3F(XJ,XK,XL)
D2003	360K1027	DIODE 1SS132

SYMBOL	PARTS NO	DESCRIPTION
⚠D2006	360K1027	DIODE 1SS132
⚠D2008	360K1027	DIODE 1SS132
D2101	360K1027	DIODE 1SS132
D2102	360K1027	DIODE 1SS132
D2103	360K1027	DIODE 1SS132
D401	360K1027	DIODE 1SS132
D402	369K2136	DIODE RGP10G,AT
D481	369K2136	DIODE RGP10G,AT
D482	360K1032	DIODE 1SS82-TA
D491	360K1032	DIODE 1SS82-TA
D5A0	360K1027	DIODE 1SS132
D5A1	360K1027	DIODE 1SS132
⚠D5A2	361K7312	DIODE EP01C-V
D5A3	360K1027	DIODE 1SS132
⚠D501	36107541	DIODE EG01A
⚠D5E1	360K1027	DIODE 1SS132
⚠D5E2	361K7562	DIODE EGP10G G23
⚠D5E3	36107541	DIODE EG01A
⚠D5E4	361K7562	DIODE EGP10G G23
D5G0	360K1027	DIODE 1SS132
D5G1	360K1027	DIODE 1SS132
D5G2	360K1027	DIODE 1SS132
D5G3	369K2136	DIODE RGP10G,AT
D5G4	360K1027	DIODE 1SS132
D5G5	360K1027	DIODE 1SS132
D5G6	360K1027	DIODE 1SS132
D5G7	36107638	DIODE EGP30G
D5G8	369K2136	DIODE RGP10G,AT
D5M0	360K1027	DIODE 1SS132
D5M2	360K1027	DIODE 1SS132
D5M3	360K1027	DIODE 1SS132
D5M4	360K1027	DIODE 1SS132
D5M5	361K7537	DIODE EGP20G G23
D5R1	360K1027	DIODE 1SS132
D501	360K1027	DIODE 1SS132
D502	360K1027	DIODE 1SS132
⚠D572	361K7562	DIODE EGP10G G23
D573	36107293	DIODE RK14
D574	36107293	DIODE RK14

SYMBOL	PARTS NO	DESCRIPTION
⚠D582	36108238	DIODE FMP-G3FS
⚠D583	36107560	DIODE RG2A2
⚠D584	36107560	DIODE RG2A2
D590	361K7562	DIODE EGP10G G23
D591	360K1027	DIODE 1SS132
D592	360K1027	DIODE 1SS132
D601	36808230	DIODE RBV-1506
D602	361K7303	DIODE EU02 V1
D603	36107174	DIODE RU1P
D604	361K7322	DIODE EL1Z-T
D605	360K1010	DIODE,SI.1S2472
D651	36107320	DIODE FMG-G26S
D652	36107320	DIODE FMG-G26S
D653	36108072	D,NETWORK D5LCA20
D654	360K1027	DIODE 1SS132
D655	360K1027	DIODE 1SS132
D656	36107178	DIODE RU3
D7G0	360K1027	DIODE 1SS132
D701	360K1027	DIODE 1SS132
D702	360K1027	DIODE 1SS132
D703	360K1027	DIODE 1SS132
D704	360K1027	DIODE 1SS132
D705	360K1027	DIODE 1SS132
D706	360K1027	DIODE 1SS132
D707	360K1027	DIODE 1SS132
D708	360K1027	DIODE 1SS132
D709	360K1027	DIODE 1SS132
D710	360K1027	DIODE 1SS132
D711	360K1027	DIODE 1SS132
D712	360K1027	DIODE 1SS132
D713	360K1027	DIODE 1SS132
D714	360K1027	DIODE 1SS132
D715	360K1027	DIODE 1SS132
D716	360K1027	DIODE 1SS132
D717	360K1027	DIODE 1SS132
D718	360K1027	DIODE 1SS132
D719	360K1027	DIODE 1SS132
D720	360K1027	DIODE 1SS132
D721	360K1027	DIODE 1SS132

SYMBOL	PARTS NO	DESCRIPTION
D722	360K1027	DIODE 1SS132
D723	360K1027	DIODE 1SS132
D725	360K1027	DIODE 1SS132
D726	360K1027	DIODE 1SS132
D727	360K1027	DIODE 1SS132
D728	360K1027	DIODE 1SS132
D729	360K1027	DIODE 1SS132
D730	360K1027	DIODE 1SS132
D731	369K2136	DIODE RGP10G,AT
D732	369K2136	DIODE RGP10G,AT
D755	360K1032	DIODE 1SS82-TA
D756	360K1032	DIODE 1SS82-TA
D757	360K1032	DIODE 1SS82-TA
D758	360K1032	DIODE 1SS82-TA
D759	360K1032	DIODE 1SS82-TA
D760	360K1032	DIODE 1SS82-TA
D761	360K1032	DIODE 1SS82-TA
D762	360K1032	DIODE 1SS82-TA
D763	360K1032	DIODE 1SS82-TA
D8A1	360K1027	DIODE 1SS132
D8A2	360K1027	DIODE 1SS132
D8A3	360K1027	DIODE 1SS132
D8A4	360K1027	DIODE 1SS132
D8A5	360K1027	DIODE 1SS132
D8A6	360K1027	DIODE 1SS132
D8A7	361D7293	DIODE RK14
D8A9	361K7582	DIODE EGP10G G23
D8C0	361K7582	DIODE EGP10G G23
D8C3	369K2136	DIODE RGP10G,AT
D8C4	369K2136	DIODE RGP10G,AT
D8G0	360K1027	DIODE 1SS132
D8G1	360K1027	DIODE 1SS132
D8G2	360K1027	DIODE 1SS132
D8G3	360K1027	DIODE 1SS132
D8G4	360K1027	DIODE 1SS132
D8G5	360K1027	DIODE 1SS132
D8G6	360K1027	DIODE 1SS132
D8G7	360K1027	DIODE 1SS132
D8G8	360K1027	DIODE 1SS132

SYMBOL	PARTS NO	DESCRIPTION
D8G9	360K1027	DIODE 1SS132
D8H2	360K1027	DIODE 1SS132
D8H3	360K1027	DIODE 1SS132
D8H4	360K1027	DIODE 1SS132
D803	360K1027	DIODE 1SS132
D804	360K1027	DIODE 1SS132
D805	360K1027	DIODE 1SS132
D806	360K1027	DIODE 1SS132
D860	360K1027	DIODE 1SS132
D861	360K1027	DIODE 1SS132
D862	360K1027	DIODE 1SS132
D863	360K1027	DIODE 1SS132
D864	360K1027	DIODE 1SS132
D901	360K1027	DIODE 1SS132
D902	360K1032	DIODE 1SS82-TA
D951	360K1027	DIODE 1SS132
D952	360K1027	DIODE 1SS132
D953	360K1027	DIODE 1SS132
D954	360K1027	DIODE 1SS132
MD801	361K8233	DIODE DAN209S-TP
MD802	361K8233	DIODE DAN209S-TP
PC601	38200234	IC PC817C/D
PC602	38200234	IC PC817C/D
TH601	38102046	THERMISTOR 902P61D050MP14
⚠ ZD2001	360K3416	DIODE RD5.1JSB(2)-T4
⚠ ZD2002	360K3416	DIODE RD5.1JSB(2)-T4
ZD2101	360K3647	DIODE RD6.8ESB(2)-T4
ZD401	360K3617	DIODE RD3.3ESB(1)-T4
ZD451	369K5512	DIODE,ZENER RD18JSB2
ZD452	360K3118	DIODE,RD10EB(1)-T4
ZD461	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD471	360K3134	DIODE RD15EB(2)-T4
ZD5A0	360K3157	DIODE RD5.1EB(3)-T4
ZD5A1	360K3134	DIODE RD15EB(2)-T4
ZD5A2	360K3326	DIODE RD18EB(3)-T4
⚠ ZD5D1	360K3655	DIODE RD8.2ESB(2)/ESAB(2)
⚠ ZD5E0	360K3535	DIODE RD5.1ESB(2)-T4
⚠ ZD5E1	360K3134	DIODE RD15EB(2)-T4
⚠ ZD5E2	360K3098	DIODE RD12EB(3)-T4

SYMBOL	PARTS NO	DESCRIPTION
⚠ ZD5E4	360K3675	DIODE RD13ESB(2)-T4
ZD5G0	360K3654	DIODE RD8.2ESB(1)-T4
ZD5G1	360K3658	DIODE RD9.1ESB(1)-T4
ZD5G2	360K3624	DIODE RD3.9ESB(2)-T4
ZD5G3	360K3656	DIODE RD8.2ESB(3)-T4
ZD5R1	360K3145	DIODE RD27EB-T4
ZD5R2	360K3161	DIODE RD12EB(2)-T4
ZD501	360K3403	DIODE RD5.1JSB(1)-T4
ZD502	360K3188	DIODE RD3.9EB(2)-T4
ZD503	360K3160	DIODE RD8.2EB(2)-T4
ZD561	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD571	360K3134	DIODE RD15EB(2)-T4
ZD591	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD592	360K3170	DIODE RD6.2JSB(2)/JSAB(2)
ZD651	360K3721	DIODE RD36ESB(3)-T4
ZD652	360K3124	DIODE RD8.2EB (3)-T4
ZD653	360K3123	DIODE RD20EB(3)
ZD710	360K3654	DIODE RD8.2ESB(1)-T4
ZD711	360K3300	DIODE RD2.0EB(1)-T4
ZD712	360K3300	DIODE RD2.0EB(1)-T4
ZD713	360K3300	DIODE RD2.0EB(1)-T4
ZD8A1	360K3654	DIODE RD8.2ESB(1)-T4
ZD8A2	360K3683	DIODE RD16ESB(2)-T4
ZD8A3	360K3169	DIODE RD6.2EB(2)-T4
ZD8A4	360K3534	DIODE RD5.1ESB(1)-T4
ZD801	360K3087	DIODE RD3.0EB-T4
ZD802	367K0017	DIODE RD4.7EB-T4
ZD803	360K3637	DIODE RD5.6ESB-T4
ZD860	360K3114	DIODE 8.2EB(1)
ZD861	367K0048	DIODE RD5.1FB(2)
ZD951	360K3605	DIODE RD2.2ESB(1)-T4

*** TRANSFORMERS ***

L5G1	46206006	TRANS,CHOKE 2MH
L5M1	46206005	TRANS,CHOKE 4MH
⚠ T5A1	47105677	F.B.T.(SR)
T5G0	46302105	TRANS,FERRITE
T5M0	46302105	TRANS,FERRITE
T571	45804008	TRANS,H.DRIVE

SYMBOL	PARTS NO	DESCRIPTION
⚠ T581	47710017	TRANS,H.OUTPUT
T601	46311115	TRANS,SWITCHING W328
T8A1	46304111	TRANS,CONVERTER

*** VARIABLE RESISTORS ***

VR101	41011106	R,VARIABLE B10K-V
VR102	41011106	R,VARIABLE B10K-V
⚠ VR2001	41505007	R,VARIABLE B5K
VR401	41085009	R,VARIABLE B10K
VR411	41085005	R,VARIABLE B1K
VR421	41085009	R,VARIABLE B10K
VR431	41085015	R,VARIABLE B300K
VR441	41085012	R,VARIABLE B50K
VR461	41085056	R,VARIABLE B2K
VR5D1	41505005	R,VARIABLE B2K
⚠ VR5E1	41505007	R,VARIABLE B5K
VR5S2	41085066	R,VARIABLE B500K
VR5U1	41085059	R,VARIABLE B10K
VR5W1	41085059	R,VARIABLE B10K
VR56A	41085012	R,VARIABLE B50K
VR56C	41085014	R,VARIABLE B200K
VR56E	41085014	R,VARIABLE B200K
VR590	41085009	R,VARIABLE B10K
VR651	41505103	R,VARIABLE B50C
VR701	410G1210	R,VARIABLE B3.3K
VR702	410G1210	R,VARIABLE B3.3K
VR703	410G1210	R,VARIABLE B3.3K
VR720	415K5159	R,VARIABLE B20K
VR721	415K5159	R,VARIABLE B20K
VR722	415K5159	R,VARIABLE B20K
VR723	415K5159	R,VARIABLE B20K
VR724	415K5159	R,VARIABLE B20K
VR725	415K5159	R,VARIABLE B20K
VR8A1	410G1207	R,VARIABLE B1.0K
VR801	410G1415	R,VARIABLE B22K-T
VR802	410G1415	R,VARIABLE B22K-T
VR860	410G1213	R,VARIABLE B10K
VR861	410G1211	R,VARIABLE B4.7K
VR901	41085014	R,VARIABLE B200K
VR951	41085009	R,VARIABLE B10K

SYMBOL	PARTS NO	DESCRIPTION
VR952	41085014	R,VARIABLE B200K

*** RELAYS & SWITCHES ***

	65360029	SWITCH,PUSH BUTTON
RL590	65660004	RELAY G6C-1114P-US
RL591	65660004	RELAY G6C-1114P-US
RL601	65660019	RELAY G5P-1(24V)
SW101	653F0031	SWITCH,PUSH BUTTON
SW102	653F0031	SWITCH,PUSH BUTTON
SW103	653F0031	SWITCH,PUSH BUTTON
SW104	653F0031	SWITCH,PUSH BUTTON
SW105	653F0031	SWITCH,PUSH BUTTON
SW106	653F0031	SWITCH,PUSH BUTTON
SW107	653F0031	SWITCH,PUSH BUTTON
SW108	653F0031	SWITCH,PUSH BUTTON
SW109	653F0031	SWITCH,PUSH BUTTON
SW110	653F0031	SWITCH,PUSH BUTTON
SW111	65161067	SWITCH,SLIDE 1-6L-2NS V
SW112	65161058	SWITCH,SLIDE 1-6L-3NS V
SW401	65161048	SWITCH,SLIDE
SW701	65161066	SWITCH,SLIDE 2-6L-2NS(SI)

*** COILS & FILTERS ***

	61062178	POWER LINE FILTER
DEG	61317101	COIL,DEGAUSSING
FL301	61062171	LINE FILTER (4.3A 2.7MH)
LC701	616K6801	NOISE FILTER 2R2-101-T
LC702	616K6801	NOISE FILTER 2R2-101-T
LC703	616K6801	NOISE FILTER 2R2-101-T
LC704	616K6801	NOISE FILTER 2R2-101-T
LC705	616K6965	NOISE FILTER TX09500NBT
LC706	616K6965	NOISE FILTER TX09500NBT
LC707	616K6965	NOISE FILTER TX09500NBT
LC708	616K6964	NOISE FILTER TX07250NBT
LC709	616K6964	NOISE FILTER TX07250NBT
LC710	616K6964	NOISE FILTER TX07250NBT
LC711	616K6946	NOISE FILTER TH28123MA
LC712	616K6946	NOISE FILTER TH28123MA
LC713	616K6946	NOISE FILTER TH28123MA

SYMBOL	PARTS NO	DESCRIPTION
LC714	616K6946	NOISE FILTER TH28123MA
LC715	616K6946	NOISE FILTER TH28123MA
LC901	616K6028	NOISE FILTER 1H223X-TA
LC902	616K6946	NOISE FILTER TH28123MA
⚠L5E1	61064006	COIL,FILTER 50UH
L5G0	61064006	COIL,FILTER 50UH
L5G2	61064006	COIL,FILTER 50UH
⚠L5M0	61064006	COIL,FILTER 50UH
L5S1	610E1717	COIL,FILTER 10UH
⚠L590	60919122	COIL,H.LIN. N-60 (10T)
⚠L591	60919121	COIL,H.LIN. N-59 (16T)
⚠L592	60919121	COIL,H.LIN. N-59 (16T)
⚠L593	61099019	COIL,CHOKE 10MH
⚠L594	61070135	FILTER CHOKE 4MH
L601	61072349	COIL,FILTER
L602	610F5002	FERRITE BEADS (B-02-RT)
L651	61099036	FILTER CHOKE
L652	61099014	COIL,CHOKE 33UH
L653	61099013	COIL,CHOKE 10UH
L704	61099011	COIL,CHOKE 33UH
L710	610E1725	COIL,FILTER 56UH
L711	610E1725	COIL,FILTER 56UH
L712	610E1726	COIL,FILTER 56UH
L720	610F5014	COIL,FILTER 5.6UH
L721	610F5014	COIL,FILTER 5.6UH
L722	610F5014	COIL,FILTER 5.6UH
L8A1	61064006	COIL,FILTER 50UH
L8A2	61064006	COIL,FILTER 50UH
L8A3	61099047	FILTER CHOKE
L8A5	61055001	COIL,FILTER 8500UH
L901	610F7619	COIL,FILTER 0.15UH
L902	610F7619	COIL,FILTER 0.15UH
L903	610F7619	COIL,FILTER 0.15UH
MC801	39013042	C,CERAMIC 25V 0.01UF
MC802	39013042	C,CERAMIC 25V 0.01UF
MC803	39013042	C,CERAMIC 25V 0.01UF
MC804	39013042	C,CERAMIC 25V 0.01UF
MR801	39009804	R,NETWORK
MR802	390C0151	R,NETWORK 8*10K 5% 1/8W
MR803	390C9805	R,NETWORK 4*1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
MR804	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR805	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR806	390C9805	R,NETWORK 4*1.0K 5% 1/6W
MR807	390C9805	R,NETWORK 4*1.0K 5% 1/6W

*** PWB ASSYS ***

⚠	84N64A01	SW,REG PWB ASSY
	84N65C01	VIDEO PWB ASSY
	84N65D01	DEF PWB ASSY
	84N65J01	CRT PWB ASSY
	84N65M01	CPU PWB ASSY
	84N65S01	SDP PWB ASSY
	84N65T01	TR PWB ASSY

*** ELECTRICAL PARTS & MISCELLANEOUS PARTS ***

	70032054	SG/CRT SOCKET(DBF)
	70051321	RECEPTACLE 1P
	70810757	LINE CORD 3P L=1.8
	71205037	HOLDER,FUSE
	73893105	CABLE,SIGNAL D15P-MD15P
	74004891	CAP
CN-D1	70056399	D-SUB SOCKET 15PV
CN-D2	70056398	MINI D-SUB COCKET 15PV
F601	66553052	FUSE MF51NM125V6.3A-UC
F651	66553017	FUSE 125V 4A-UC
HS1	31709204	SHEET,HEAT SINK
HS2	31709105	SHEET,HEAT SINK
HS3	31709612	SHEET INSULATOR M-45
HS5A4	31709614	SHEET,INSULATOR M-45
HS581	31709507	SHEET,INSULATOR HEAT SINK
HS582	31709503	SHEET,INSULATOR
SG901	329J0047	ARRESTER (300V),AT52
SG902	329J0047	ARRESTER (300V),AT52
SG903	329J0047	ARRESTER (300V),AT52
SG904	329J0047	ARRESTER (300V),AT52
SG905	66706002	SPARK GAP 1.5KV
SG951	667K7001	SPARK GAP 1.2KV
X801	64098031	X'TAL 12000KHZ

SYMBOL	PARTS NO	DESCRIPTION

*** APPEARANCE PARTS ***

	25282981	SCREW REVET
	25283511	JOINT
	25313931	CABINET BACK(A)ASSY
	25313951	CABINET BACK (B) ASSY
	25313971	CABINET BOTTOM
	25419341	HOOK (B)
	25419371	ESCUTCHEON
	25419381	REVOLVING STAND ASSY
	25419401	REVOLVING SPINDLE
	25420251	LID,CONTROL ASSY
	25534631	COIL SPRING
	25607291	SLIDE SHEET
	25757643	LABEL(REV.)
	25775701	LABEL (CONTROL)
	25776741	NAME PLATE,INSTRUCTION(720)
	25776751	NAME PLATE,INSTRUCTION(720N)
	25776761	NAME PLATE,INSTRUCTION(720NK1)
	25776771	NAME PLATE,INSTRUCTION(720NI)

*** KNOBS & PUSH BUTTONS ***

	25454691	KNOB,SLIDE
	25454741	PUSH BUTTON (SW)
	25454751	KNOB,CONTROL

*** PRINTED & PACKING MATERIALS ***

	24313191	BAG,POLYETHYLENE(150*370)
	24314531	BAG,POLYEHYLENE (180*350)
	24315061	BAG,POLYETHYLENE (270X370
	25522931	SHEET PROTECTION
	25523551	FILLER T.CARTON
	25523561	FILLER (B) CARTON
	25526101	CARTON BOX(B)
	25526431	CARTON BOX(JC-1742UMA)
	25536551	INSTRUCTION BOOK
	76552361	TEMPLATE(JC-1742/2142)

*** RESISTORS ***

R110	401C5655	R,CARBON 180H 5% 1/6W
R111	401C5673	R,CARBON 1.0K 5% 1/6W
R120	401C5693	R,CARBON 6.8K 5% 1/6W
R121	401C5669	R,CARBON 560H 5% 1/6W
R122	404C7833	R,METAL 2.7K 1% 1/6W

JC-1742
UMA

SYMBOL	PARTS NO	DESCRIPTION
R123	404C1691	R,METAL 5.6K 1% 1/6W
R124	401C6667	R,CARBON 560H 5% 1/4W
⚠R200A	401K5711	R,CARBON 39K 5% 1/6W
⚠R200C	401K5711	R,CARBON 39K 5% 1/6W
⚠R200F	401K5715	R,CARBON 56K 5% 1/6W
⚠R2001	404C1721	R,METAL 100K 1% 1/6W
⚠R2006	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R2007	401K5697	R,CARBON 10K 5% 1/6W
⚠R2008	401K5721	R,CARBON 100K 5% 1/6W
⚠R2009	401K5713	R,CARBON 47K 5% 1/6W
⚠R200D	401K5753	R,CARBON 2.2M 5% 1/6W
⚠R200E	401K5711	R,CARBON 39K 5% 1/6W
⚠R200F	401K5721	R,CARBON 100K 5% 1/6W
⚠R200G	401K5685	R,CARBON 3.3K 5% 1/6W
⚠R200H	401K5693	R,CARBON 6.8K 5% 1/6W
⚠R201K	401K5697	R,CARBON 10K 5% 1/6W
⚠R201L	401K5705	R,CARBON 22K 5% 1/6W
⚠R201M	401K5689	R,CARBON 4.7K 5% 1/6W
⚠R2010	401K5697	R,CARBON 10K 5% 1/6W
⚠R2011	401K5649	R,CARBON 100H 5% 1/6W
⚠R2012	401K5709	R,CARBON 33K 5% 1/6W
⚠R2013	401K5699	R,CARBON 12K 5% 1/6W
⚠R2018	404C1677	R,METAL 1.5K 1% 1/6W
⚠R2019	404C1697	R,METAL 10K 1% 1/6W
⚠R2020	401K5597	R,CARBON 10K 5% 1/6W
⚠R210C	401K5753	R,CARBON 2.2M 5% 1/6W
R2101	401K5709	R,CARBON 33K 5% 1/6W
R2102	401K5659	R,CARBON 270H 5% 1/6W
R2104	401K5701	R,CARBON 15K 5% 1/6W
R401	401K5689	R,CARBON 4.7K 5% 1/6W
R402	401K5699	R,CARBON 12K 5% 1/6W
R403	404C1694	R,METAL 7.5K 1% 1/6W
R404	401K5705	R,CARBON 22K 5% 1/6W
R405	403F1165	R,METAL 470H 5% 1W
R406	401C5609	R,CARBON 2.2H 5% 1/4W
R407	401K5681	R,CARBON 2.2K 5% 1/6W
R408	401K5649	R,CARBON 100H 5% 1/6W
R409	401K5673	R,CARBON 1.0K 5% 1/6W
R410	403F2101	R,METAL 1.0H 5% 2W

SYMBOL	PARTS NO	DESCRIPTION
R464	401K5697	R,CARBON 10K 5% 1/6W
R465	401K5691	R,CARBON 5.6K 5% 1/6W
R466	401K5681	R,CARBON 2.2K 5% 1/6W
R471	404C1713	R,METAL 47K 1% 1/6W
R472	404C1699	R,METAL 12K 1% 1/6W
R473	404C1719	R,METAL 82K 1% 1/6W
R474	401K5677	R,CARBON 1.5K 5% 1/6W
R475	401K5697	R,CARBON 10K 5% 1/6W
R476	403F2169	R,METAL OXIDE 680H 5% 2W
R477	403F2169	R,METAL OXIDE 680H 5% 2W
⚠R481	404K5125	R,METAL 10H 5% 1/4W
R482	401K5711	R,CARBON 39K 5% 1/6W
R483	401K5715	R,CARBON 56K 5% 1/6W
R484	401K5723	R,CARBON 120K 5% 1/6W
⚠R491	401G6173	R,CARBON 1.0K 5% 1/4W
R492	401K5749	R,CARBON 1.5M 5% 1/6W
⚠R5AA	401C5745	R,CARBON 1.0M 5% 1/4W
⚠R5AC	401C5745	R,CARBON 1.0M 5% 1/4W
R5A0	401K5663	R,CARBON 2.7K 5% 1/6W
R5A1	403F1177	R,METAL OXIDE 1.5K 5% 1W
R5A2	404C1685	R,METAL 3.3K 1% 1/6W
R5A3	401K5713	R,CARBON 47K 5% 1/6W
R5A4	401K5663	R,CARBON 2.7K 5% 1/6W
R5A5	401K5663	R,CARBON 2.7K 5% 1/6W
R5A6	403F1173	R,METAL OXIED 1.0K 5% 1W
R5A7	401K5677	R,CARBON 1.5K 5% 1/6W
R5A8	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5A9	401G8137	R,CARBON 33H 5% 1/2W
⚠R5C1	401T5125	R,CARBON 10H 5% 1/4W
⚠R5C2	401T5125	R,CARBON 10H 5% 1/4W
⚠R5C3	404K5109	R,METAL 2.2H 5% 1/4W
R5C4	401K5709	R,CARBON 33K 5% 1/6W
⚠R5D1	404K5109	R,METAL 2.2H 5% 1/4W
R5D2	401K5691	R,CARBON 5.6K 5% 1/6W
R5D3	401K5677	R,CARBON 1.5K 5% 1/6W
⚠R5D4	401G5191	R,CARBON 5.6K 5% 1/4W
R5D5	401K5709	R,CARBON 33K 5% 1/6W
⚠R5D6	403F3173	R,METAL OXIDE 1.0K 5% 3W
R5D7	40318994	R,METAL 2.2K 5% 5W

SYMBOL	PARTS NO	DESCRIPTION
R411	401K5685	R,CARBON 3.3K 5% 1/6W
R420	401K5699	R,CARBON 12K 5% 1/6W
R421	401K5701	R,CARBON 15K 5% 1/6W
R422	401K5711	R,CARBON 39K 5% 1/6W
R423	401K5709	R,CARBON 33K 5% 1/6W
R424	401K5707	R,CARBON 27K 5% 1/6W
R425	404C1711	R,METAL 39K 1% 1/6W
R426	404C1717	R,METAL 68K 1% 1/6W
R427	404C1731	R,METAL 270K 1% 1/6W
R428	404C1725	R,METAL 150K 1% 1/6W
R429	404C1713	R,METAL 47K 1% 1/6W
R430	404C1721	R,METAL 100K 1% 1/6W
R431	401K5721	R,CARBON 100K 5% 1/6W
R433	401K5721	R,CARBON 100K 5% 1/6W
R434	401K5721	R,CARBON 100K 5% 1/6W
R435	401K5721	R,CARBON 100K 5% 1/6W
R436	401K5715	R,CARBON 56K 5% 1/6W
R437	401K5715	R,CARBON 56K 5% 1/6W
R438	401K5735	R,CARBON 390K 5% 1/6W
R439	404C1745	R,METAL 1.0M 1% 1/6W
R440	401K5753	R,CARBON 2.2M 5% 1/6W
R441	404C1739	R,METAL 560K 1% 1/6W
R442	404C1721	R,METAL 100K 1% 1/6W
R443	401K5713	R,CARBON 47K 5% 1/6W
R444	404C1743	R,METAL 820K 1% 1/6W
R445	401K5705	R,CARBON 22K 5% 1/6W
R446	404C1723	R,METAL 120K 1% 1/6W
R447	404C1707	R,METAL 27K 1% 1/6W
R450	401K5717	R,CARBON 68K 5% 1/6W
R451	401K5707	R,CARBON 27K 5% 1/6W
R452	401K5721	R,CARBON 100K 5% 1/6W
R453	401K5721	R,CARBON 100K 5% 1/6W
R454	401K5673	R,CARBON 1.0K 5% 1/6W
R455	401K5673	R,CARBON 1.0K 5% 1/6W
R456	403F3141	R,METAL OXIDE 47H 5% 3W
R457	403F3141	R,METAL OXIDE 47H 5% 3W
R461	404K5117	R,METAL 4.7H 5% 1/4W
R462	401K5689	R,CARBON 4.7K 5% 1/6W
R463	401K5687	R,CARBON 3.9K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
⚠R5EA	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E0	401K5683	R,CARBON 2.7K 5% 1/6W
⚠R5E1	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R5E2	401K5699	R,CARBON 12K 5% 1/6W
⚠R5E3	403F1173	R,METAL OXIED 1.0K 5% 1W
⚠R5E4	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E5	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R5E7	401J9820	RD16Z,OH,AT52
⚠R5E8	401C5691	R,CARBON 5.6K 5% 1/4W
⚠R5E9	401K5691	R,CARBON 5.6K 5% 1/6W
⚠R5F0	404K5141	R,METAL 47H 5% 1/4W
R5F2	404K5125	R,METAL 10H 5% 1/4W
R5F3	404C1721	R,METAL 100K 1% 1/6W
R5F4	404C1703	R,METAL 18K 1% 1/6W
R5F8	404C1721	R,METAL 100K 1% 1/6W
⚠R5F9	404K5109	R,METAL 2.2H 5% 1/4W
R5GA	401G6127	R,CARBON 12H 5% 1/4W
R5G1	401K5693	R,CARBON 6.8K 5% 1/6W
R5G2	401K5697	R,CARBON 10K 5% 1/6W
R5G3	401K5737	R,CARBON 470K 5% 1/6W
R5G4	401K5699	R,CARBON 12K 5% 1/6W
R5G5	401K5693	R,CARBON 6.8K 5% 1/6W
R5G6	401T5101	R,CARBON 1H 5% 1/4W
R5G7	401K5721	R,CARBON 100K 5% 1/6W
R5G8	401K5729	R,CARBON 220K 5% 1/6W
R5G9	401K5745	R,CARBON 1.0M 5% 1/6W
R5H0	401K5701	R,CARBON 15K 5% 1/6W
R5H1	401K5689	R,CARBON 4.7K 5% 1/6W
R5H2	401K5713	R,CARBON 47K 5% 1/6W
R5H3	401K5713	R,CARBON 47K 5% 1/6W
R5H4	401K5695	R,CARBON 8.2K 5% 1/6W
R5H5	401K5705	R,CARBON 22K 5% 1/6W
R5H7	401K5719	R,CARBON 82K 5% 1/6W
R5H8	401K5709	R,CARBON 33K 5% 1/6W
R5K3	401K5723	R,CARBON 120K 5% 1/6W
R5K5	401K5587	R,CARBON 3.9K 5% 1/6W
R5K6	401K5633	R,CARBON 22H 5% 1/6W
R5K7	401K5693	R,CARBON 6.8K 5% 1/6W
R5M0	401K5693	R,CARBON 6.8K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
⚠R5M1	401I5127	R,CARBON 12H 5% 1/4W
R5M2	401K5705	R,CARBON 22K 5% 1/6W
R5M3	401K5723	R,CARBON 120K 5% 1/6W
R5M5	401K5745	R,CARBON 1.0M 5% 1/6W
R5M6	401K5709	R,CARBON 33K 5% 1/6W
R5M7	401K5715	R,CARBON 56K 5% 1/6W
R5M8	401K5697	R,CARBON 10K 5% 1/6W
R5N0	401K5687	R,CARBON 3.9K 5% 1/6W
R5N1	401K5693	R,CARBON 6.8K 5% 1/6W
R5N2	401K5641	R,CARBON 47H 5% 1/6W
⚠R5N3	408A8109	R,FUSE 2.2H 5% 1/2W
⚠R5N4	401G6185	R,CARBON 3.3K 5% 1/4W
⚠R5N5	401H5741	R,CARBON 680K 5% 1/2W
R5N7	401K5733	R,CARBON 330K 5% 1/6W
R5N9	404C1725	R,METAL 150K 1% 1/6W
R5R0	401K5699	R,CARBON 12K 5% 1/6W
R5R4	401K5689	R,CARBON 4.7K 5% 1/6W
R5R5	401K5679	R,CARBON 1.8K 5% 1/6W
R5R6	401C6669	R,CARBON 680H 5% 1/4W
R5R7	401K5699	R,CARBON 12K 5% 1/6W
⚠R5R8	404051J5	R,METAL 10H 5% 1/4W
R5S0	404C1713	R,METAL 47K 1% 1/6W
R5S1	404C1721	R,METAL 100K 1% 1/6W
R5S2	404C1721	R,METAL 100K 1% 1/6W
R5S3	401K5697	R,CARBON 10K 5% 1/6W
R5S4	401K5697	R,CARBON 10K 5% 1/6W
R5S5	404C1703	R,METAL 18K 1% 1/6W
R5S6	401K5725	R,CARBON 150K 5% 1/6W
R5S7	401K5721	R,CARBON 100K 5% 1/6W
R5S8	401K5713	R,CARBON 47K 5% 1/6W
R5S9	401K5721	R,CARBON 100K 5% 1/6W
R5T0	401K5713	R,CARBON 47K 5% 1/6W
R5T1	401K5697	R,CARBON 10K 5% 1/6W
R5T2	401K5697	R,CARBON 10K 5% 1/6W
R5T3	401K5707	R,CARBON 27K 5% 1/6W
R5T4	401K5697	R,CARBON 10K 5% 1/6W
R5T6	401K5693	R,CARBON 6.8K 5% 1/6W
R5T7	401K5705	R,CARBON 22K 5% 1/6W
R5T8	401K5719	R,CARBON 82K 5% 1/6W
R5U0	401K5697	R,CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R5U1	401K5721	R,CARBON 100K 5% 1/6W
R5U2	401K5697	R,CARBON 10K 5% 1/6W
R5U3	401K5697	R,CARBON 10K 5% 1/6W
R5U4	404C1710	R,METAL 36K 1% 1/6W
R5U5	404C1710	R,METAL 36K 1% 1/6W
R5U6	401K5707	R,CARBON 27K 5% 1/6W
R5U7	401K5683	R,CARBON 2.7K 5% 1/6W
R5U8	401K5721	R,CARBON 100K 5% 1/6W
R5U9	401K5705	R,CARBON 22K 5% 1/6W
R5W0	401K5729	R,CARBON 220K 5% 1/6W
R5W2	401K5721	R,CARBON 100K 5% 1/6W
R5W3	401K5721	R,CARBON 100K 5% 1/6W
R5W4	401K5673	R,CARBON 1.0K 5% 1/6W
R5W5	401K5673	R,CARBON 1.0K 5% 1/6W
R5W9	401K5705	R,CARBON 22K 5% 1/6W
R5X0	404C1697	R,METAL 10K 1% 1/6W
R5X1	401K5697	R,CARBON 10K 5% 1/6W
R5X2	404C1715	R,METAL 56K 1% 1/6W
R5X3	404C1715	R,METAL 56K 1% 1/6W
R5X4	401K5697	R,CARBON 10K 5% 1/6W
R5X5	401K5721	R,CARBON 100K 5% 1/6W
R5X6	401K5685	R,CARBON 3.3K 5% 1/6W
R5X7	401K5703	R,CARBON 18K 5% 1/6W
R5X8	404C1727	R,METAL 180K 1% 1/6W
R5X9	404C1721	R,METAL 100K 1% 1/6W
R5Y1	404C1721	R,METAL 100K 1% 1/6W
R5Y2	404C1721	R,METAL 100K 1% 1/6W
R5Y3	401K5697	R,CARBON 10K 5% 1/6W
R5Y4	401K5691	R,CARBON 5.6K 5% 1/6W
R5Y5	401K5717	R,CARBON 68K 5% 1/6W
R5Y6	401K5707	R,CARBON 27K 5% 1/6W
R50A	404C1697	R,METAL 10K 1% 1/6W
R50C	404C1675	R,METAL 1.2K 1% 1/6W
R50E	404C1721	R,METAL 100K 1% 1/6W
R50F	401K5601	R,CARBON 1H 5% 1/6W
R50G	404C1703	R,METAL 18K 1% 1/6W
R50H	401K5727	R,CARBON 130K 5% 1/6W
R50K	401K5687	R,CARBON 3.9K 5% 1/6W
R50L	401K5727	R,CARBON 180K 5% 1/6W
R50M	401K5697	R,CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R50T	401K5707	R,CARBON 27K 5% 1/6W
R501	401K5757	R,CARBON 3.3M 5% 1/6W
⚠R502	401K5717	R,CARBON 68K 5% 1/6W
⚠R503	401K5709	R,CARBON 33K 5% 1/6W
R504	401K5697	R,CARBON 10K 5% 1/6W
R505	401K5697	R,CARBON 10K 5% 1/6W
R506	404C1729	R,METAL 220K 1% 1/6W
⚠R507	404C1721	R,METAL 100K 1% 1/6W
R508	404C1727	R,METAL 180K 1% 1/6W
R509	401K5709	R,CARBON 33K 5% 1/6W
R51A	404C1707	R,METAL 27K 1% 1/6W
R51C	401K5601	R,CARBON 1H 5% 1/6W
R51E	404C1721	R,METAL 100K 1% 1/6W
R51F	404C1689	R,METAL 4.7K 1% 1/6W
R51G	404C1705	R,METAL 22K 1% 1/6W
R51H	401K5735	R,CARBON 390K 5% 1/6W
R51K	401K5687	R,CARBON 3.9K 5% 1/6W
R510	404C1717	R,METAL 68K 1% 1/6W
R511	401K5675	R,CARBON 1.2K 5% 1/6W
R512	401K5699	R,CARBON 12K 5% 1/6W
R513	401K5659	R,CARBON 270H 5% 1/6W
R514	401K5693	R,CARBON 6.8K 5% 1/6W
R515	401K5697	R,CARBON 10K 5% 1/6W
R516	401K5673	R,CARBON 1.0K 5% 1/6W
R519	403F2171	R,METAL 82OH 5% 2W
R52A	404C1711	R,METAL 39K 1% 1/6W
R52C	404C1695	R,METAL 8.2K 1% 1/6W
R52E	404C1721	R,METAL 100K 1% 1/6W
R52F	401K5685	R,CARBON 3.3K 5% 1/6W
R52G	404C1709	R,METAL 33K 1% 1/6W
R52H	401K5737	R,CARBON 470K 5% 1/6W
R52K	401K5687	R,CARBON 3.9K 5% 1/6W
R52T	401K5707	R,CARBON 27K 5% 1/6W
R520	401K5691	R,CARBON 5.6K 5% 1/6W
R521	403F3163	R,METAL OXIDE 390H 5% 3W
R522	401K5705	R,CARBON 22K 5% 1/6W
R523	401K5699	R,CARBON 12K 5% 1/6W
R524	401J9820	RD16Z,OH,AT52
R526	401K5697	R,CARBON 10K 5% 1/6W
R527	401K5697	R,CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R528	401K5677	R,CARBON 1.5K 5% 1/6W
R529	401K5697	R,CARBON 10K 5% 1/6W
R53A	404C1721	R,METAL 100K 1% 1/6W
R53C	404C1699	R,METAL 12K 1% 1/6W
R53E	404C1721	R,METAL 100K 1% 1/6W
R53F	404C1705	R,METAL 22K 1% 1/6W
R53G	404C1711	R,METAL 39K 1% 1/6W
R53H	401K5743	R,CARBON 820K 5% 1/6W
R53K	401K5687	R,CARBON 3.9K 5% 1/6W
R53L	401K5673	R,CARBON 1.0K 5% 1/6W
R53S	401K5697	R,CARBON 10K 5% 1/6W
R53T	401K5707	R,CARBON 27K 5% 1/6W
R531	401K5709	R,CARBON 33K 5% 1/6W
R532	401K5709	R,CARBON 33K 5% 1/6W
R533	401K5689	R,CARBON 4.7K 5% 1/6W
R534	401K5709	R,CARBON 33K 5% 1/6W
R535	401K5673	R,CARBON 1.0K 5% 1/6W
R536	404C1703	R,METAL 18K 1% 1/6W
R537	404C1683	R,METAL 2.7K 1% 1/6W
R538	404C1705	R,METAL 22K 1% 1/6W
R54A	404C1725	R,METAL 150K 1% 1/6W
R54C	404C1707	R,METAL 27K 1% 1/6W
R54E	404C1721	R,METAL 100K 1% 1/6W
R54F	401K5601	R,CARBON 1H 5% 1/6W
R54G	404C1721	R,METAL 100K 1% 1/6W
R54H	401K5745	R,CARBON 1.0M 5% 1/6W
R54K	401K5687	R,CARBON 3.9K 5% 1/6W
R54T	401K5707	R,CARBON 27K 5% 1/6W
R544	401K5697	R,CARBON 10K 5% 1/6W
R55A	404C1729	R,METAL 220K 1% 1/6W
R55C	404C1709	R,METAL 33K 1% 1/6W
R55E	404C1721	R,METAL 100K 1% 1/6W
R55F	404C1711	R,METAL 39K 1% 1/6W
R55G	404C1723	R,METAL 120K 1% 1/6W
R55H	401K5747	R,CARBON 1.2M 5% 1/6W
R55K	401K5687	R,CARBON 3.9K 5% 1/6W
R55T	401K5707	R,CARBON 27K 5% 1/6W
R56A	401K5723	R,CARBON 120K 5% 1/6W
R56C	401K5721	R,CARBON 100K 5% 1/6W
R56E	401K5725	R,CARBON 150K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R56F	401K5723	R,CARBON 120K 5% 1/6W
R56G	401K5715	R,CARBON 56K 5% 1/6W
R56H	401K5715	R,CARBON 56K 5% 1/6W
R56K	404C1721	R,METAL 100K 1% 1/6W
R56L	404C1715	R,METAL 56K 1% 1/6W
R56M	401K5661	R,CARBON 330H 5% 1/6W
R56R	404C1697	R,METAL 10K 1% 1/6W
R56S	401K5657	R,CARBON 220H 5% 1/6W
R56T	401K5719	R,CARBON 82K 5% 1/6W
R56W	401K5731	R,CARBON 270K 5% 1/6W
R56X	401K5601	R,CARBON 1H 5% 1/6W
R568	401K5709	R,CARBON 33K 5% 1/6W
R569	401K5697	R,CARBON 10K 5% 1/6W
R57A	404C1717	R,METAL 68K 1% 1/6W
R57E	401K5649	R,CARBON 100H 5% 1/6W
⚠R57F	404K5141	R,METAL 47H 5% 1/4W
⚠R57G	409A6149	R,FUSE 100H 5% 1/4W
⚠R57H	404K5109	R,METAL 2.2H 5% 1/4W
R57K	401K5681	R,CARBON 2.2K 5% 1/6W
⚠R57L	404K5141	R,METAL 47H 5% 1/4W
⚠R57T	403F1137	R,METAL 33H 5% 1W
⚠R57V	403F3177	R,METAL OXIDE 1.5K 5% 3W
⚠R570	404K5109	R,METAL 2.2H 5% 1/4W
R571	404C1729	R,METAL 220K 1% 1/6W
R572	404C1715	R,METAL 56K 1% 1/6W
R573	404C1705	R,METAL 22K 1% 1/6W
R574	404C1723	R,METAL 120K 1% 1/6W
R575	404C1729	R,METAL 220K 1% 1/6W
R576	404C1703	R,METAL 18K 1% 1/6W
R577	404C1705	R,METAL 22K 1% 1/6W
R578	401C6677	R,CARBON 1.5K 5% 1/4W
R579	404C1703	R,METAL 18K 1% 1/6W
R58A	404C1689	R,METAL 4.7K 1% 1/6W
R58C	401K5661	R,CARBON 330H 5% 1/6W
R58E	404C1721	R,METAL 100K 1% 1/6W
R58F	404C1681	R,METAL 2.2K 1% 1/6W
R58G	404C1699	R,METAL 12K 1% 1/6W
R58H	401K5721	R,CARBON 100K 5% 1/6W
R58K	401K5687	R,CARBON 3.9K 5% 1/6W
R58T	401K5707	R,CARBON 27K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R581	40298004	R,WIRE 1.0H 1% 5W
R582	40298004	R,WIRE 1.0H 1% 5W
R583	401C6651	R,CARBON 120H 5% 1/4W
R584	401C6651	R,CARBON 120H 5% 1/4W
R59A	401K5649	R,CARBON 100H 5% 1/6W
R59C	401K5649	R,CARBON 100H 5% 1/6W
R59E	401K5649	R,CARBON 100H 5% 1/6W
R59F	401K5649	R,CARBON 100H 5% 1/6W
R59G	401K5649	R,CARBON 100H 5% 1/6W
R59L	401K5685	R,CARBON 3.3K 5% 1/6W
R59M	401K5719	R,CARBON 82K 5% 1/6W
R59N	401K5699	R,CARBON 12K 5% 1/6W
R59S	401K5685	R,CARBON 3.3K 5% 1/6W
R59T	401K5685	R,CARBON 3.3K 5% 1/6W
R59W	401K5649	R,CARBON 100H 5% 1/6W
R590	401K5685	R,CARBON 3.3K 5% 1/6W
⚠R591	404K5117	R,METAL 4.7H 5% 1/4W
⚠R592	408A8157	R,FUSE 220H 5% 1/2W
⚠R593	408A8157	R,FUSE 220H 5% 1/2W
⚠R594	408A8157	R,FUSE 220H 5% 1/2W
R595	401K5685	R,CARBON 3.3K 5% 1/6W
R596	401K5667	R,CARBON 560H 5% 1/6W
R597	401K5685	R,CARBON 3.3K 5% 1/6W
R598	401K5667	R,CARBON 560H 5% 1/6W
R599	403F3141	R,METAL OXIDE 47H 5% 3W
R601	401H5729	R,CARBON 220K 5% 1/2W
R602	40299104	R,WIRE 10H 5% 5W
R603	401H5737	R,CARBON 470K 5% 1/2W
R604	40372151	R,METAL 120H 5% 2W
R605	401K5673	R,CARBON 1.0K 5% 1/6W
R606	40372213	R,METAL 47K 5% 2W
R607	40372191	R,METAL 5.6K 5% 2W
R608	40372329	R,METAL 0.22H 5% 2W
R609	40372329	R,METAL 0.22H 5% 2W
R610	40373149	R,METAL 100H 5% 3W
R611	401T5145	R,CARBON 68H 5% 1/4W
R612	401T5125	R,CARBON 10H 5% 1/4W
R613	401K5705	R,CARBON 22K 5% 1/6W
R614	401K5701	R,CARBON 15K 5% 1/6W
R615	401K5657	R,CARBON 220H 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R616	40373209	R,METAL 33K 5% 3W
R617	40373209	R,METAL 33K 5% 3W
R619	401H5667	R,CARBON 560H 5% 1/2W
R620	401K5721	R,CARBON 100K 5% 1/6W
R651	40373135	R,METAL 27H 5% 3W
R652	401K5697	R,CARBON 10K 5% 1/6W
R653	404C1689	R,METAL 4.7K 1% 1/6W
R654	40373135	R,METAL 27H 5% 3W
R655	401H5705	R,CARBON 22K 5% 1/2W
R656	40372135	R,METAL 27H 5% 2W
R657	401K5677	R,CARBON 1.5K 5% 1/6W
R658	401K5677	R,CARBON 1.5K 5% 1/6W
R659	401K5675	R,CARBON 1.2K 5% 1/6W
R660	401K5705	R,CARBON 22K 5% 1/6W
R661	404C1683	R,METAL 2.7K 1% 1/6W
R662	401K5649	R,CARBON 100H 5% 1/6W
R663	401K5689	R,CARBON 4.7K 5% 1/6W
R664	40372213	R,METAL 47K 5% 2W
R665	40372197	R,METAL 10K 5% 2W
R666	40372175	R,METAL 1.2K 5% 2W
R667	401C6665	R,CARBON 470H 5% 1/4W
R668	401C6657	R,CARBON 220H 5% 1/4W
R669	401K5713	R,CARBON 47K 5% 1/6W
R670	401K5701	R,CARBON 15K 5% 1/6W
R671	401K5717	R,CARBON 68K 5% 1/6W
R672	401K5669	R,CARBON 680H 5% 1/6W
R674	401K5673	R,CARBON 1.0K 5% 1/6W
R7A0	401K5649	R,CARBON 100H 5% 1/6W
R7A1	401K5649	R,CARBON 100H 5% 1/6W
R7A2	401K5649	R,CARBON 100H 5% 1/6W
R7A3	401K5663	R,CARBON 390H 5% 1/6W
R7A4	401K5687	R,CARBON 3.9K 5% 1/6W
R7A5	401K5663	R,CARBON 390H 5% 1/6W
R7A6	401K5687	R,CARBON 3.9K 5% 1/6W
R7A7	401K5663	R,CARBON 390H 5% 1/6W
R7A8	401K5687	R,CARBON 3.9K 5% 1/6W
R7C0	401K5639	R,CARBON 39H 5% 1/6W
R7C1	401K5639	R,CARBON 39H 5% 1/6W
R7C2	401K5639	R,CARBON 39H 5% 1/6W
R7C3	401K5713	R,CARBON 47K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R7C4	401K5691	R,CARBON 5.6K 5% 1/6W
R7C5	401K5713	R,CARBON 47K 5% 1/6W
R7C6	401K5691	R,CARBON 5.6K 5% 1/6W
R7C7	401K5713	R,CARBON 47K 5% 1/6W
R7C8	401K5691	R,CARBON 5.6K 5% 1/6W
R7D0	401K5729	R,CARBON 220K 5% 1/6W
R7D1	401K5729	R,CARBON 220K 5% 1/6W
R7D2	401K5729	R,CARBON 220K 5% 1/6W
R7D3	401K5725	R,CARBON 150K 5% 1/6W
R7D4	401K5725	R,CARBON 150K 5% 1/6W
R7D5	401K5725	R,CARBON 150K 5% 1/6W
R7D6	401K5719	R,CARBON 82K 5% 1/6W
R7D7	401K5719	R,CARBON 82K 5% 1/6W
R7D8	401K5719	R,CARBON 82K 5% 1/6W
R7D9	401K5709	R,CARBON 33K 5% 1/6W
R7E0	401K5709	R,CARBON 33K 5% 1/6W
R7E1	401K5709	R,CARBON 33K 5% 1/6W
R7E2	401K5695	R,CARBON 8.2K 5% 1/6W
R7E3	401K5695	R,CARBON 8.2K 5% 1/6W
R7E4	401K5695	R,CARBON 8.2K 5% 1/6W
R7E5	401K5697	R,CARBON 10K 5% 1/6W
R7E6	401K5697	R,CARBON 10K 5% 1/6W
R7E7	401K5697	R,CARBON 10K 5% 1/6W
R7F0	401K5697	R,CARBON 10K 5% 1/6W
R7F1	401K5697	R,CARBON 10K 5% 1/6W
R7F2	401K5697	R,CARBON 10K 5% 1/6W
R7F3	401K5697	R,CARBON 10K 5% 1/6W
R7F4	401J9820	RD16Z,0H,ATB2
R7F5	401J9820	RD16Z,0H,ATB2
R7F6	401K5733	R,CARBON 330K 5% 1/6W
R7F7	401K5733	R,CARBON 330K 5% 1/6W
R7F8	401K5733	R,CARBON 330K 5% 1/6W
R7G0	401K5661	R,CARBON 330H 5% 1/6W
R7G1	401K5649	R,CARBON 100H 5% 1/6W
R7G2	401K5681	R,CARBON 2.2K 5% 1/6W
R7G3	401K5681	R,CARBON 2.2K 5% 1/6W
R7G4	401K5687	R,CARBON 3.9K 5% 1/6W
R7G5	403F2151	R,METAL OXIDE 120H 5% 2W
R701	404C1646	R,METAL 75H 1% 1/6W
R702	404C1646	R,METAL 75H 1% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R703	404C1646	R,METAL 75H 1% 1/6W
R704	404C1646	R,METAL 75H 1% 1/6W
R705	404C1646	R,METAL 75H 1% 1/6W
R706	404C1646	R,METAL 75H 1% 1/6W
R707	401K5685	R,CARBON 3.3K 5% 1/6W
R708	401K5697	R,CARBON 10K 5% 1/6W
R709	401K5685	R,CARBON 3.3K 5% 1/6W
R710	401K5697	R,CARBON 10K 5% 1/6W
R711	401K5685	R,CARBON 3.3K 5% 1/6W
R712	401K5697	R,CARBON 10K 5% 1/6W
R713	401K5685	R,CARBON 3.3K 5% 1/6W
R714	401K5697	R,CARBON 10K 5% 1/6W
R715	401K5685	R,CARBON 3.3K 5% 1/6W
R716	401K5697	R,CARBON 10K 5% 1/6W
R717	401K5685	R,CARBON 3.3K 5% 1/6W
R718	401K5697	R,CARBON 10K 5% 1/6W
R719	401K5653	R,CARBON 150H 5% 1/6W
R720	401K5653	R,CARBON 150H 5% 1/6W
R721	401K5653	R,CARBON 150H 5% 1/6W
R722	401K5653	R,CARBON 150H 5% 1/6W
R723	401K5653	R,CARBON 150H 5% 1/6W
R724	401K5653	R,CARBON 150H 5% 1/6W
R725	401H5661	R,CARBON 330H 5% 1/2W
R726	401H5661	R,CARBON 330H 5% 1/2W
R727	401H5661	R,CARBON 330H 5% 1/2W
R729	404C1597	R,METAL 10K 1% 1/6W
R730	401K5705	R,CARBON 22K 5% 1/6W
R731	401K5681	R,CARBON 2.2K 5% 1/6W
R732	401K5681	R,CARBON 2.2K 5% 1/6W
R734	401K5705	R,CARBON 22K 5% 1/6W
R735	401K5681	R,CARBON 2.2K 5% 1/6W
R736	401K5681	R,CARBON 2.2K 5% 1/6W
R737	401K5681	R,CARBON 2.2K 5% 1/6W
R738	401K5673	R,CARBON 1.0K 5% 1/6W
R739	401K5581	R,CARBON 2.2K 5% 1/6W
R741	401K5699	R,CARBON 12K 5% 1/6W
R742	401K5697	R,CARBON 10K 5% 1/6W
R743	401K5699	R,CARBON 12K 5% 1/6W
R744	401K5697	R,CARBON 10K 5% 1/6W
R745	401K5693	R,CARBON 6.8K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R750	401K5649	R,CARBON 100H 5% 1/6W
R751	401K5649	R,CARBON 100H 5% 1/6W
R752	401K5649	R,CARBON 100H 5% 1/6W
R756	401K5669	R,CARBON 680H 5% 1/6W
R757	401K5669	R,CARBON 680H 5% 1/6W
R758	401K5669	R,CARBON 680H 5% 1/6W
R760	401K5653	R,CARBON 150H 5% 1/6W
R761	401K5653	R,CARBON 150H 5% 1/6W
R762	401K5653	R,CARBON 150H 5% 1/6W
R763	401K5689	R,CARBON 4.7K 5% 1/6W
R764	401K5697	R,CARBON 10K 5% 1/6W
R765	401K5697	R,CARBON 10K 5% 1/6W
R766	401K5697	R,CARBON 10K 5% 1/6W
R767	401K5697	R,CARBON 10K 5% 1/6W
R768	401K5697	R,CARBON 10K 5% 1/6W
R769	401K5697	R,CARBON 10K 5% 1/6W
R772	401K5697	R,CARBON 10K 5% 1/6W
R773	401K5697	R,CARBON 10K 5% 1/6W
R774	401K5697	R,CARBON 10K 5% 1/6W
R775	401K5671	R,CARBON 820H 5% 1/6W
R776	401K5685	R,CARBON 3.3K 5% 1/6W
R777	401K5671	R,CARBON 820H 5% 1/6W
R778	401K5685	R,CARBON 3.3K 5% 1/6W
R779	401K5671	R,CARBON 820H 5% 1/6W
R780	401K5685	R,CARBON 3.3K 5% 1/6W
R781	401K5665	R,CARBON 470H 5% 1/6W
R782	401K5665	R,CARBON 470H 5% 1/6W
R783	401K5665	R,CARBON 470H 5% 1/6W
R784	401K5655	R,CARBON 180H 5% 1/6W
R785	401K5655	R,CARBON 180H 5% 1/6W
R786	401K5655	R,CARBON 180H 5% 1/6W
R787	401K5673	R,CARBON 1.0K 5% 1/6W
R788	401K5673	R,CARBON 1.0K 5% 1/6W
R789	401K5673	R,CARBON 1.0K 5% 1/6W
R790	401H5657	R,CARBON 220H 5% 1/2W
R791	401H5657	R,CARBON 220H 5% 1/2W
R792	401H5657	R,CARBON 220H 5% 1/2W
R793	401K5679	R,CARBON 1.8K 5% 1/6W
R795	404C1653	R,METAL 150H 1% 1/6W
R796	404C1653	R,METAL 150H 1% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R797	404C1653	R,METAL 150H 1% 1/6W
R8A1	401H5683	R,CARBON 2.7K 5% 1/2W
R8A2	401K5697	R,CARBON 10K 5% 1/6W
R8A3	401K5697	R,CARBON 10K 5% 1/6W
R8A4	401H5681	R,CARBON 2.2K 5% 1/2W
R8A5	401K5701	R,CARBON 15K 5% 1/6W
R8A6	401K5701	R,CARBON 15K 5% 1/6W
R8A7	401K5727	R,CARBON 180K 5% 1/6W
R8A8	401K5705	R,CARBON 22K 5% 1/6W
R8A9	401K5695	R,CARBON 8.2K 5% 1/6W
R8C0	401K5697	R,CARBON 10K 5% 1/6W
R8C1	401K5681	R,CARBON 2.2K 5% 1/6W
R8C2	401K5681	R,CARBON 2.2K 5% 1/6W
R8C3	401K5705	R,CARBON 22K 5% 1/6W
R8C4	401C6751	R,CARBON 4.7M 5% 1/4W
R8C5	401K5743	R,CARBON 820K 5% 1/6W
R8C6	401K5665	R,CARBON 470H 5% 1/6W
R8C7	401K5697	R,CARBON 10K 5% 1/6W
R8C8	401K5745	R,CARBON 1.0M 5% 1/6W
R8D0	401K5643	R,CARBON 56H 5% 1/6W
R8E0	401K5687	R,CARBON 3.3K 5% 1/6W
R8E1	401K5691	R,CARBON 5.6K 5% 1/6W
R8E2	404C1697	R,METAL 10K 1% 1/6W
R8E3	404C1697	R,METAL 10K 1% 1/6W
R8E4	403F2151	R,METAL OXIDE 120H 5% 2W
R8E5	403F2151	R,METAL OXIDE 120H 5% 2W
R8E6	401K5669	R,CARBON 680H 5% 1/6W
R8E7	401K5655	R,CARBON 180H 5% 1/6W
R8E8	403J9049	R,METAL 82H 5% 3W
R8F0	403F2103	R,METAL OXIDE 1.2H 5% 2W
R8F1	403F2137	R,METAL OXIDE 33H 5% 3W
R8F2	401K5715	R,CARBON 56K 5% 1/6W
R8F3	403F2109	R,METAL 2.2H 5% 2W
R8F4	401K5657	R,CARBON 220H 5% 1/6W
R8F5	403F2117	R,METAL OXIDE 4.7H 5% 2W
R8F6	403F2125	R,METAL OXIDE 10H 5% 1W
R8F7	403F2135	R,METAL OXIDE 27H 5% 1W
R8F8	401K5697	R,CARBON 10K 5% 1/6W
R8F9	401J9820	RD15Z,0H,AT52
R8G0	401K5691	R,CARBON 5.6K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R8G1	401K5729	R,CARBON 220K 5% 1/6W
R8G2	401K5691	R,CARBON 5.6K 5% 1/6W
R8G3	401K5729	R,CARBON 220K 5% 1/6W
R8G4	401K5685	R,CARBON 3.3K 5% 1/6W
R8G5	401K5685	R,CARBON 3.3K 5% 1/6W
R8G6	401K5685	R,CARBON 3.3K 5% 1/6W
R8G7	401K5685	R,CARBON 3.3K 5% 1/6W
R8G8	401K5685	R,CARBON 3.3K 5% 1/6W
R8G9	401K5677	R,CARBON 1.5K 5% 1/6W
R8H0	401K5669	R,CARBON 680H 5% 1/6W
R8H1	401K5685	R,CARBON 3.3K 5% 1/6W
R8H2	401K5677	R,CARBON 1.5K 5% 1/6W
R8H3	401K5721	R,CARBON 100K 5% 1/6W
R8H4	401K5693	R,CARBON 6.8K 5% 1/6W
R8H5	401K5687	R,CARBON 3.9K 5% 1/6W
R8H6	401K5675	R,CARBON 1.2K 5% 1/6W
R8H7	401K5683	R,CARBON 2.7K 5% 1/6W
R8H8	401K5675	R,CARBON 1.2K 5% 1/6W
R8H9	401K5685	R,CARBON 3.3K 5% 1/6W
R8K0	401K5691	R,CARBON 5.6K 5% 1/6W
R8K1	401K5691	R,CARBON 5.6K 5% 1/6W
R8K2	401K5691	R,CARBON 5.6K 5% 1/6W
R8K3	401K5701	R,CARBON 15K 5% 1/6W
R8K4	401K5689	R,CARBON 4.7K 5% 1/6W
R8K5	401K5689	R,CARBON 4.7K 5% 1/6W
R8K6	401K5705	R,CARBON 22K 5% 1/6W
R8K7	401K5729	R,CARBON 220K 5% 1/6W
R8K8	401K5673	R,CARBON 1.0K 5% 1/6W
R8K9	401K5673	R,CARBON 1.0K 5% 1/6W
R8L0	401K5685	R,CARBON 3.3K 5% 1/6W
R8L1	401K5685	R,CARBON 3.3K 5% 1/6W
R8L3	401K5667	R,CARBON 560H 5% 1/6W
R8Q1	401K5683	R,CARBON 2.7K 5% 1/6W
R8Q2	401K5669	R,CARBON 270H 5% 1/6W
R8Q3	401K5693	R,CARBON 6.8K 5% 1/6W
R8Q5	401K5697	R,CARBON 10K 5% 1/6W
R8Q6	401K5713	R,CARBON 47K 5% 1/6W
R8Q7	401K5697	R,CARBON 10K 5% 1/6W
R8Q8	401K5697	R,CARBON 10K 5% 1/6W
R8Q9	401K5697	R,CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R810	401K5673	R,CARBON 1.0K 5% 1/6W
R811	401K5673	R,CARBON 1.0K 5% 1/6W
R816	401K5681	R,CARBON 2.2K 5% 1/6W
R817	401K5701	R,CARBON 15K 5% 1/6W
R818	401K5693	R,CARBON 6.8K 5% 1/6W
R832	401K5673	R,CARBON 1.0K 5% 1/6W
R834	401C6665	R,CARBON 470H 5% 1/4W
R835	401K5719	R,CARBON 82K 5% 1/6W
R836	401K5731	R,CARBON 270K 5% 1/6W
R837	401K5711	R,CARBON 39K 5% 1/6W
R838	404C1721	R,METAL 100K 1% 1/6W
R839	404C1724	R,METAL 130K 1% 1/6W
R840	404C1697	R,METAL 10K 1% 1/6W
R841	404C1721	R,METAL 100K 1% 1/6W
R842	404C1724	R,METAL 130K 1% 1/6W
R843	404C1697	R,METAL 10K 1% 1/6W
R844	404C1721	R,METAL 100K 1% 1/6W
R845	404C1724	R,METAL 130K 1% 1/6W
R846	404C1697	R,METAL 10K 1% 1/6W
R847	404C1721	R,METAL 100K 1% 1/6W
R848	404C1724	R,METAL 130K 1% 1/6W
R849	404C1697	R,METAL 10K 1% 1/6W
R850	401K5697	R,CARBON 10K 5% 1/6W
R851	401K5697	R,CARBON 10K 5% 1/6W
R852	401K5697	R,CARBON 10K 5% 1/6W
R853	401K5709	R,CARBON 33K 5% 1/6W
R854	401K5709	R,CARBON 33K 5% 1/6W
R855	401K5709	R,CARBON 33K 5% 1/6W
R856	401K5709	R,CARBON 33K 5% 1/6W
R857	401K5673	R,CARBON 1.0K 5% 1/6W
R858	401K5673	R,CARBON 1.0K 5% 1/6W
R859	401K5673	R,CARBON 1.0K 5% 1/6W
R86A	401K5673	R,CARBON 1.0K 5% 1/6W
R86C	401K5673	R,CARBON 1.0K 5% 1/6W
⚠R860	404K5125	R,METAL 10H 5% 1/4W
R861	403F3159	R,METAL OXIDE 270H 5% 3W
R862	401K5695	R,CARBON 8.2K 5% 1/6W
R863	401K5685	R,CARBON 3.3K 5% 1/6W
R864	401K5695	R,CARBON 8.2K 5% 1/6W
R865	401J9820	RD16Z.0H.AT52

SYMBOL	PARTS NO	DESCRIPTION
R866	401K5689	R,CARBON 4.7K 5% 1/6W
R867	401K5697	R,CARBON 10K 5% 1/6W
R868	401K5697	R,CARBON 10K 5% 1/6W
R869	401K5695	R,CARBON 8.2K 5% 1/6W
R870	401K5683	R,CARBON 2.7K 5% 1/6W
R871	401K5673	R,CARBON 1.0K 5% 1/6W
R872	401K5685	R,CARBON 3.3K 5% 1/6W
R873	401K5673	R,CARBON 1.0K 5% 1/6W
R874	401K5697	R,CARBON 10K 5% 1/6W
R876	401K5683	R,CARBON 2.7K 5% 1/6W
R877	401K5673	R,CARBON 1.0K 5% 1/6W
R878	401K5673	R,CARBON 1.0K 5% 1/6W
R879	401K5673	R,CARBON 1.0K 5% 1/6W
R880	401K5673	R,CARBON 1.0K 5% 1/6W
R882	401K5673	R,CARBON 1.0K 5% 1/6W
R883	403F2149	R,METAL OXIDE 100H 5% 2W
R884	401K5697	R,CARBON 10K 5% 1/6W
R885	401K5709	R,CARBON 33K 5% 1/6W
R886	401K5699	R,CARBON 12K 5% 1/6W
R904	401H5645	R,CARBON 68H 5% 1/2W
R905	401H5645	R,CARBON 68H 5% 1/2W
R906	401H5645	R,CARBON 68H 5% 1/2W
R907	401K5697	R,CARBON 10K 5% 1/6W
R908	401K5749	R,CARBON 1.5M 5% 1/6W
R909	401K5633	R,CARBON 22H 5% 1/6W
R910	401K5649	R,CARBON 100H 5% 1/6W
R911	401C6689	R,CARBON 4.7K 5% 1/4W
R912	401K5737	R,CARBON 470K 5% 1/6W
R913	401K5697	R,CARBON 10K 5% 1/6W
R914	401K5713	R,CARBON 47K 5% 1/6W
R951	401K5697	R,CARBON 10K 5% 1/6W
R952	401K5697	R,CARBON 10K 5% 1/6W
R953	401K5723	R,CARBON 120K 5% 1/6W
R954	401K5713	R,CARBON 47K 5% 1/6W
R955	401K5709	R,CARBON 33K 5% 1/6W
R956	401K5673	R,CARBON 1.0K 5% 1/6W
R957	401K5673	R,CARBON 1.0K 5% 1/6W
R958	401K5715	R,CARBON 56K 5% 1/6W
R959	401K5737	R,CARBON 470K 5% 1/6W
R960	401K5715	R,CARBON 56K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R961	401K5721	R,CARBON 100K 5% 1/6W
R962	401K5709	R,CARBON 33K 5% 1/6W
R964	401K5699	R,CARBON 12K 5% 1/6W
R965	401K5685	R,CARBON 3.3K 5% 1/6W
R966	401K5649	R,CARBON 100H 5% 1/6W
R967	403F3209	R,METAL OXIDE 33K 5% 3W
R968	403F3209	R,METAL OXIDE 33K 5% 3W
R970	401K5647	R,CARBON 82H 5% 1/6W
R971	401K5679	R,CARBON 1.8K 5% 1/6W
R974	401H5731	R,CARBON 270K 5% 1/2W
R975	401H5731	R,CARBON 270K 5% 1/2W
R976	401K5705	R,CARBON 22K 5% 1/6W
R978	401K5705	R,CARBON 22K 5% 1/6W
R979	401K5697	R,CARBON 10K 5% 1/6W
R980	401K5713	R,CARBON 47K 5% 1/6W
R981	401K5707	R,CARBON 27K 5% 1/6W
R982	401K5697	R,CARBON 10K 5% 1/6W
R983	401K5681	R,CARBON 2.2K 5% 1/6W
R984	401K5697	R,CARBON 10K 5% 1/6W
R985	401H5677	R,CARBON 1.5K 5% 1/2W
R986	401K5721	R,CARBON 100K 5% 1/6W
R987	401K5697	R,CARBON 10K 5% 1/6W
R989	401K5707	R,CARBON 27K 5% 1/6W

*** CAPACITORS ***

C200P	421D6013	C,CERAMIC 50V 0.1UF
⚠C2002	43086041	C,ELEC 25V 47UF
⚠C2004	43086029	C,ELEC 16V 100UF
⚠C2006	43086029	C,ELEC 16V 100UF
⚠C2008	43086066	C,ELEC 50V 22UF
C2021	421D6013	C,CERAMIC 50V 0.1UF
C2101	43089066	C,ELEC 50V 22UF
C401	421C0213	C,CERAMIC 50V 1000PF
C402	428B3021	C,METAL FILM 50V 0.47UF
C405	43089071	C,ELEC 50V 330UF
C406	421D6013	C,CERAMIC 50V 0.1UF
C407	43089070	C,ELEC 50V 220UF
C408	43089061	C,ELEC 50V 1.0UF
C409	428D4317	C,METAL FILM 100V 0.22UF
C410	43030183	C,ELEC 50V 1000UF

SYMBOL	PARTS NO	DESCRIPTION
C411	43089054	C,ELEC 35V 100UF
C412	427F4011	C,FILM 50V 6800PF
C441	428B3013	C,METAL FILM 50V 0.1UF
C442	428B3013	C,METAL FILM 50V 0.1UF
C451	421A0425	C,CERAMIC 50V 0.01UF
C461	43086054	C,ELEC 35V 100UF
C462	43086065	C,ELEC 50V 10UF
C47P	421D6013	C,CERAMIC 50V 0.1UF
C471	421D6013	C,CERAMIC 50V 0.1UF
C472	43086041	C,ELEC 25V 47UF
C481	420C9563	C,CERAMIC 500V 1000PF
C482	43086536	C,ELEC 200V 10UF
C491	430C9154	C,ELEC 350V 3.3UF
C5A1	43086041	C,ELEC 25V 47UF
C5A2	427J9112	C,FILM 50V 1000PF
C5A3	427J9112	C,FILM 50V 1000PF
C5A4	43089041	C,ELEC 25V 47UF
C5A5	421D6013	C,CERAMIC 50V 0.1UF
⚠C5A6	42817102	C,METAL FILM 2.0KV 1900PF
⚠C5A8	428JJ115	C,METAL 1000V 0.047UF
C5A9	4303J222	C,ELEC 250V 2.2UF
C5C0	43086066	C,ELEC 50V 22UF
⚠C5D1	42703455	C,FILM 630V 2200PF
⚠C5D2	427F4059	C,FILM 50V 4700PF
⚠C5D3	428B3021	C,METAL FILM 50V 0.47UF
C5EA	427F4013	C,FILM 50V 0.01UF
C5EC	433A7013	C,ELEC 16V 47UF
C5EP	421D6013	C,CERAMIC 50V 0.1UF
⚠C5E0	43086065	C,ELEC 50V 10UF
⚠C5E2	423A2037	C,CERAMIC 50V 47PF
⚠C5E3	43089065	C,ELEC 50V 10UF
⚠C5E4	43089066	C,ELEC 50V 22UF
⚠C5E5	4309H106	C,ELEC 250V 22UF
⚠C5E6	427F4013	C,FILM 50V 0.01UF
⚠C5E7	43089039	C,ELEC 25V 220F
⚠C5E8	428CJ022	C,METAL FILM 250V 0.1UF
⚠C5E9	43086068	C,ELEC 50V 47UF
⚠C5F1	43086516	C,ELEC 160V 10UF
⚠C5GA	43088180	C,ELEC 50V 22UF

SYMBOL	PARTS NO	DESCRIPTION
C5GC	43086066	C,ELEC 50V 22UF
C5GE	428CJ022	C,METAL FILM 250V 0.1UF
C5GG	423A2033	C,CERAMIC 50V 33PF
C5GI	421C0225	C,CERAMIC 50V 0.01UF
C5G2	427F4601	C,FILM 50V 1000PF
C5G3	423A1057	C,CERAMIC 50V 330PF
C5G4	43089066	C,ELEC 50V 22UF
C5G5	423A1101	C,CERAMIC 50V 470PF
C5G6	427F4021	C,FILM 50V 0.047UF
C5G7	43089552	C,ELEC 250V 1.0UF
C5G8	42009563	C,CERAMIC 500V 1000PF
C5G9	43086039	C,ELEC 25V 22UF
C5HO	43086064	C,ELEC 50V 4.7UF
C5H1	43086064	C,ELEC 50V 4.7UF
C5H2	43086065	C,ELEC 50V 10UF
C5H6	4303J224	C,ELEC 250V 4.7UF
C5H7	427F4621	C,FILM 50V 0.047UF
C5H8	427F4621	C,FILM 50V 0.047UF
C5H9	4309H105	C,ELEC 200V 4.7UF
⚠C5MC	433A4025	C,ELEC 16V 47UF
C5MG	423A1101	C,CERAMIC 50V 470PF
C5M1	43089065	C,ELEC 50V 22UF
C5M2	427F4025	C,FILM 50V 0.1UF
C5M4	427F4621	C,FILM 50V 0.047UF
C5M5	423A2103	C,CERAMIC 50V 180PF
C5M6	4303J222	C,ELEC 250V 2.2UF
C5M7	43086065	C,ELEC 50V 10UF
C5M8	427F4621	C,FILM 50V 0.047UF
C5M9	4303J222	C,ELEC 250V 2.2UF
C5R1	421C0205	C,CERAMIC 50V 220PF
C5S1	421D6009	C,CERAMIC 25V 0.1UF
C5S2	43086063	C,ELEC 50V 3.3UF
C5S3	433A3033	C,ELEC 25V 10UF
C5S4	43086041	C,ELEC 25V 47UF
C5S5	43086041	C,ELEC 25V 47UF
C5S8	43086030	C,ELEC 16V 220UF
C5S7	43086030	C,ELEC 16V 220UF
C5S8	421D6009	C,CERAMIC 25V 0.1UF
C5S9	421D6009	C,CERAMIC 25V 0.1UF

SYMBOL	PARTS NO	DESCRIPTION
C57C	43086041	C,ELEC 25V 47UF
C57P	421D6013	C,CERAMIC 50V 0.1UF
C571	43086069	C,ELEC 50V 100UF
C572	43085066	C,ELEC 50V 22UF
C574	420C9567	C,CERAMIC 500V 2200PF
⚠C577	427D3575	C,FILM 200V 0.1UF
C578	427F4651	C,FILM 50V 1000PF
⚠C581	42817101	C,METAL 1600V 1500PF
⚠C582	42817201	C,METAL 1600V 6200PF
C583	43198002	C,ELEC 200V 47UF
⚠C59A	42839602	C,METAL 400V 0.12UF
⚠C59C	42839708	C,METAL 400V 0.33UF 5%
C59E	421D6009	C,CERAMIC 25V 0.1UF
C59F	421D6009	C,CERAMIC 25V 0.1UF
C59G	421D6009	C,CERAMIC 25V 0.1UF
C59H	421D6009	C,CERAMIC 25V 0.1UF
C59K	421D6009	C,CERAMIC 25V 0.1UF
⚠C59L	43089552	C,ELEC 250V 1.0UF
C59M	421D6009	C,CERAMIC 25V 0.1UF
C59N	427F4613	C,FILM 50V 0.01UF
C59O	43086096	C,ELEC 100V 3.3UF
⚠C591	420C9563	C,CERAMIC 500V 1000PF
⚠C592	420C9563	C,CERAMIC 500V 1000PF
⚠C593	420C9563	C,CERAMIC 500V 1000PF
⚠C595	42839631	C,METAL FILM 400V 0.6UF
⚠C596	42839631	C,METAL FILM 400V 0.6UF
⚠C597	42839615	C,METAL 400V 0.68UF 5%
⚠C598	42839606	C,METAL 400V 0.24UF
⚠C599	42839601	C,METAL 400V 0.1UF
C601	42899001	C,FILM AC250V 0.22UF
C602	42899098	C,FILM 250V 0.1UF
C603	42053013	C,CERAMIC 400V 1000PF
C604	42053013	C,CERAMIC 400V 1000PF
C605	43198001	C,ELEC 200V 1200UF
C606	42883013	C,METAL FILM 50V 0.1UF
C607	42099096	C,CERAMIC 2KV 470PF
C609	420EC067	C,CERAMIC 400V 2200PF
C610	42339022	C,METAL FILM 250V 0.1UF
C611	42099088	C,CERAMIC 2KV 220PF

SYMBOL	PARTS NO	DESCRIPTION
C5T0	421D6009	C,CERAMIC 25V 0.1UF
C5T1	421D6009	C,CERAMIC 25V 0.1UF
C5T2	421D6009	C,CERAMIC 25V 0.1UF
C5X0	421D6009	C,CERAMIC 25V 0.1UF
C5X1	421J9036	C,CERAMIC 25V 0.1UF
C5X2	43086041	C,ELEC 25V 47UF
C5X3	43086064	C,ELEC 50V 4.7UF
C50A	421D6013	C,CERAMIC 50V 0.1UF
C50C	42883025	C,METAL FILM 50V 1.0UF
C50R	421D6013	C,CERAMIC 50V 0.1UF
C50S	421D6013	C,CERAMIC 50V 0.1UF
C500	427F4013	C,FILM 50V 0.01UF
C501	43086064	C,ELEC 50V 4.7UF
C502	423A2103	C,CERAMIC 50V 180PF
C503	43089017	C,ELEC 10V 220UF
C504	421D6009	C,CERAMIC 25V 0.1UF
C506	423A2033	C,CERAMIC 50V 33PF
C507	421D6013	C,CERAMIC 50V 0.1UF
C508	43086030	C,ELEC 16V 220UF
C509	423A1045	C,CERAMIC 50V 100PF
C51C	421D6013	C,CERAMIC 50V 0.1UF
C51P	421D6013	C,CERAMIC 50V 0.1UF
C510	423A2103	C,CERAMIC 50V 180PF
C511	423A2105	C,CERAMIC 50V 270PF
C512	427F4651	C,FILM 50V 1000PF
C513	427F4603	C,FILM 50V 1500PF
C514	435A8307	C,TANTALUM 35V 1.0UF
C515	427A7005	C,FILM 100V 0.0022UF
C516	427F4014	C,FILM 50V 0.012UF
C517	43086061	C,ELEC 50V 1.0UF
C518	421A0425	C,CERAMIC 50V 0.01UF
C520	427F4610	C,FILM 50V 5600PF
C521	421A0425	C,CERAMIC 50V 0.01UF
C523	423A2045	C,CERAMIC 50V 100PF
C53C	421A0425	C,CERAMIC 50V 0.01UF
C549	423A2045	C,CERAMIC 50V 100PF
C55A	421D6013	C,CERAMIC 50V 0.1UF
C56C	421D6013	C,CERAMIC 50V 0.1UF
C57A	421A0425	C,CERAMIC 50V 0.01UF

SYMBOL	PARTS NO	DESCRIPTION
C612	43089065	C,ELEC 50V 10UF
C613	42883101	C,METAL FILM 50V 0.010UF
C614	42099096	C,CERAMIC 2KV 470PF
C615	43089065	C,ELEC 50V 10UF
C616	423A1100	C,CERAMIC 50V 390PF
C618	42099088	C,CERAMIC 2KV 220PF
C619	42899098	C,FILM 250V 0.1UF
C651	42099095	C,CERAMIC 2KV 330PF
C652	4302J105	C,ELEC 100V 470UF
C653	4302J559	C,ELEC 250V 47UF
C654	42809001	C,METAL FILM 100V 0.01UF
C655	42099095	C,CERAMIC 2KV 330PF
C656	4304A013	C,ELEC 160V 100UF
C657	4304A013	C,ELEC 160V 100UF
C658	42099086	C,CERAMIC 2KV 1000PF
C659	4302J059	C,ELEC 35V 2200UF
C660	43089057	C,ELEC 35V 470UF
C661	427F4624	C,FILM 50V 0.082UF
C662	42883013	C,METAL FILM 50V 0.1UF
C663	4302J059	C,ELEC 35V 2200UF
C664	427J9057	C,FILM 100V 3300PF
C665	43089063	C,ELEC 35V 47UF
C666	428D0053	C,METAL 100V 0.1UF
C667	428D0053	C,METAL 100V 0.1UF
C669	4304A013	C,ELEC 160V 100UF
C7A0	428D0097	C,FILM 250V 0.22UF
C7A1	428D0097	C,FILM 250V 0.22UF
C7A2	428D0097	C,FILM 250V 0.22UF
C7A3	43089512	C,ELEC 160V 1.0UF
C7A4	43089512	C,ELEC 160V 1.0UF
C7A5	43089512	C,ELEC 160V 1.0UF
C7A6	420C9563	C,CERAMIC 500V 1000PF
C7A7	420C9563	C,CERAMIC 500V 1000PF
C7A8	420C9563	C,CERAMIC 500V 1000PF
C7C0	433A6045	C,ELEC 16V 22UF
C7C1	433A6045	C,ELEC 16V 22UF
C7C2	433A6045	C,ELEC 16V 22UF
C7C3	433A6045	C,ELEC 16V 22UF
C7C4	433A6045	C,ELEC 16V 22UF
C7C5	433A6045	C,ELEC 16V 22UF

SYMBOL	PARTS NO	DESCRIPTION
C7C6	430BJ518	C,ELEC 160V 33UF
C7D1	423A2015	C,CERAMIC 50V 10PF
C7D2	423A2015	C,CERAMIC 50V 10PF
C7D3	423A2015	C,CERAMIC 50V 10PF
C7D4	421C0225	C,CERAMIC 50V 0.01UF
C7D5	421C0225	C,CERAMIC 50V 0.01UF
C7D6	421C0225	C,CERAMIC 50V 0.01UF
C7D7	430B9552	C,ELEC 250V 1.0UF
C7E0	43086065	C,ELEC 50V 10UF
C7E1	43086065	C,ELEC 50V 10UF
C7E2	43086065	C,ELEC 50V 10UF
C7E5	421D6009	C,CERAMIC 25V 0.1UF
C7E6	421D6009	C,CERAMIC 25V 0.1UF
C7E7	421D6009	C,CERAMIC 25V 0.1UF
C7E8	421D6009	C,CERAMIC 25V 0.1UF
C7E9	420C9569	C,CERAMIC 50V 3300PF
C7F0	421D6009	C,CERAMIC 25V 0.1UF
C7F1	421D6009	C,CERAMIC 25V 0.1UF
C7F2	421D6009	C,CERAMIC 25V 0.1UF
C7G1	433A6045	C,ELEC 16V 22UF
C7G2	433A6045	C,ELEC 16V 22UF
C7G3	433A6045	C,ELEC 16V 22UF
C7G4	433A6045	C,ELEC 16V 22UF
C7G5	433A6045	C,ELEC 16V 22UF
C7G6	433A6045	C,ELEC 16V 22UF
C7G7	421C0225	C,CERAMIC 50V 0.01UF
C7G8	421C0225	C,CERAMIC 50V 0.01UF
C7G9	421C0225	C,CERAMIC 50V 0.01UF
C7H0	421C0225	C,CERAMIC 50V 0.01UF
C7H1	421C0225	C,CERAMIC 50V 0.01UF
C7H2	421C0225	C,CERAMIC 50V 0.01UF
C7H3	43088144	C,ELEC 16V 47UF
C7H4	421D6009	C,CERAMIC 25V 0.1UF
C7H5	43088144	C,ELEC 16V 47UF
C7I5	421D6009	C,CERAMIC 25V 0.1UF
C7I7	423A1045	C,CERAMIC 50V 100PF
C7I8	421C0225	C,CERAMIC 50V 0.01UF
C7I9	421C0225	C,CERAMIC 50V 0.01UF
C7J0	421C0225	C,CERAMIC 50V 0.01UF
C7J2	43086041	C,ELEC 25V 47UF

SYMBOL	PARTS NO	DESCRIPTION
C7J4	43086032	C,ELEC 16V 470UF
C7J5	43086032	C,ELEC 16V 470UF
C7J6	43086032	C,ELEC 16V 470UF
C7J7	43086065	C,ELEC 50V 10UF
C7J8	43086065	C,ELEC 50V 10UF
C7J9	43086065	C,ELEC 50V 10UF
C7K1	43086065	C,ELEC 50V 10UF
C7K2	43086065	C,ELEC 50V 10UF
C7K3	43086029	C,ELEC 16V 100UF
C7K4	43086029	C,ELEC 16V 100UF
C7K5	43086029	C,ELEC 16V 100UF
C7K6	43086032	C,ELEC 16V 470UF
C7K7	421C0219	C,CERAMIC 50V 3300PF
C7K8	421C0219	C,CERAMIC 50V 3300PF
C7K9	421C0219	C,CERAMIC 50V 3300PF
C7L1	43086041	C,ELEC 25V 47UF
C7L2	43089032	C,ELEC 16V 470UF
C7L3	43089032	C,ELEC 16V 470UF
C7L4	43089032	C,ELEC 16V 470UF
C7L5	421D6009	C,CERAMIC 25V 0.1UF
C7L6	421D6009	C,CERAMIC 25V 0.1UF
C7L7	421D6009	C,CERAMIC 25V 0.1UF
C7L8	43086065	C,ELEC 50V 10UF
C7L9	43086065	C,ELEC 50V 10UF
C7M1	43086065	C,ELEC 50V 10UF
C7M2	421C0225	C,CERAMIC 50V 0.01UF
C7M3	421C0225	C,CERAMIC 50V 0.01UF
C7M4	421C0225	C,CERAMIC 50V 0.01UF
C7M5	421C0213	C,CERAMIC 50V 1000PF
C7M6	421C0213	C,CERAMIC 50V 1000PF
C7M7	421C0213	C,CERAMIC 50V 1000PF
C7M8	43089026	C,ELEC 16V 22UF
C7M9	43089026	C,ELEC 16V 22UF
C7N1	43089026	C,ELEC 16V 22UF
C7N2	421C0225	C,CERAMIC 50V 0.01UF
C7N3	421C0225	C,CERAMIC 50V 0.01UF
C7N4	421C0225	C,CERAMIC 50V 0.01UF
C7N5	43083104	C,ELEC 50V 3.3UF
C7N6	43083104	C,ELEC 50V 3.3UF

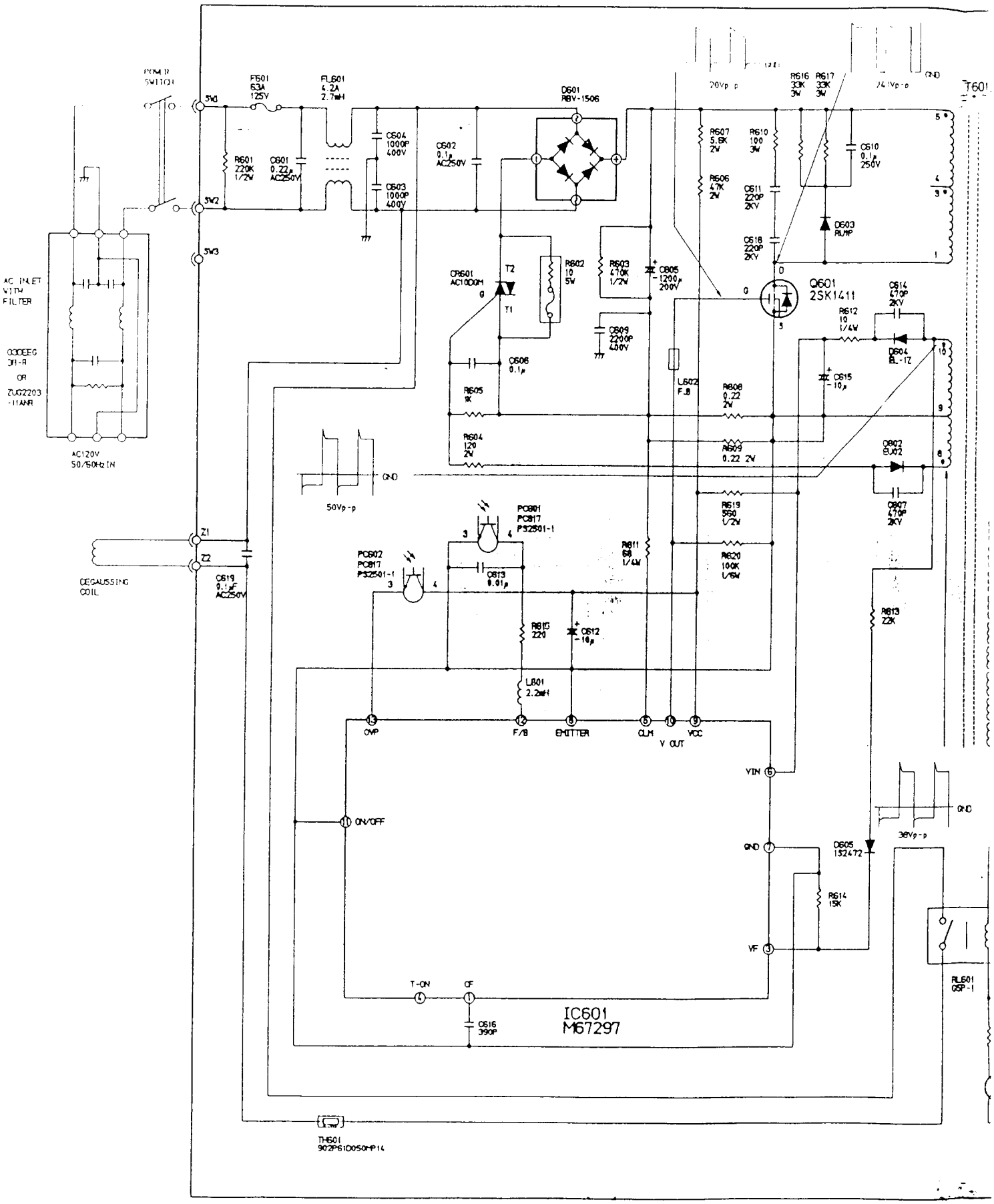
SYMBOL	PARTS NO	DESCRIPTION
C773	430B3104	C,ELEC 50V 3.3UF
C774	430C8423	C,ELEC 16V 470UF
C775	430C8423	C,ELEC 16V 470UF
C776	430C8423	C,ELEC 16V 470UF
C777	421C0213	C,CERAMIC 50V 1000PF
C778	421C0213	C,CERAMIC 50V 1000PF
C779	421C0213	C,CERAMIC 50V 1000PF
C780	430B6041	C,ELEC 25V 47UF
C781	423A2041	C,CERAMIC 50V 68PF
C782	423A2041	C,CERAMIC 50V 68PF
C783	423A2041	C,CERAMIC 50V 68PF
C784	421C0225	C,CERAMIC 50V 0.01UF
C785	421C0225	C,CERAMIC 50V 0.01UF
C786	421C0225	C,CERAMIC 50V 0.01UF
C787	423A2035	C,CERAMIC 50V 39PF
C788	423A2035	C,CERAMIC 50V 39PF
C789	423A2035	C,CERAMIC 50V 39PF
C790	421C0225	C,CERAMIC 50V 0.01UF
C791	421C0225	C,CERAMIC 50V 0.01UF
C792	421C0225	C,CERAMIC 50V 0.01UF
C793	430B9513	C,ELEC 160V 2.2UF
C794	430B9513	C,ELEC 160V 2.2UF
C795	430B9513	C,ELEC 160V 2.2UF
C796	420C9569	C,CERAMIC 50V 3300PF
C797	420C9569	C,CERAMIC 50V 3300PF
C798	420C9569	C,CERAMIC 50V 3300PF
C8A1	423A1028	C,CERAMIC 50V 20PF
C8A2	428B3025	C,METAL FILM 50V 1.0UF
C8A3	43032175	C,ELEC 50V 220UF
C8A4	43032175	C,ELEC 50V 220UF
C8A5	427F4013	C,FILM 50V 0.01UF
C8A6	427F4004	C,FILM 50V 1800PF
C8A7	427F4009	C,FILM 50V 4700PF
C8A8	421D6009	C,CERAMIC 25V 0.1UF
C8A9	421C0213	C,CERAMIC 50V 1000PF
C8C1	430C2105	C,ELEC 25V 470UF
C8C2	430C2105	C,ELEC 25V 470UF
C8C3	430B9031	C,ELEC 16V 330UF
C8C4	432K6011	C,ELEC 10V 220UF
C8C5	430J8109	C,ELEC 16V 47UF

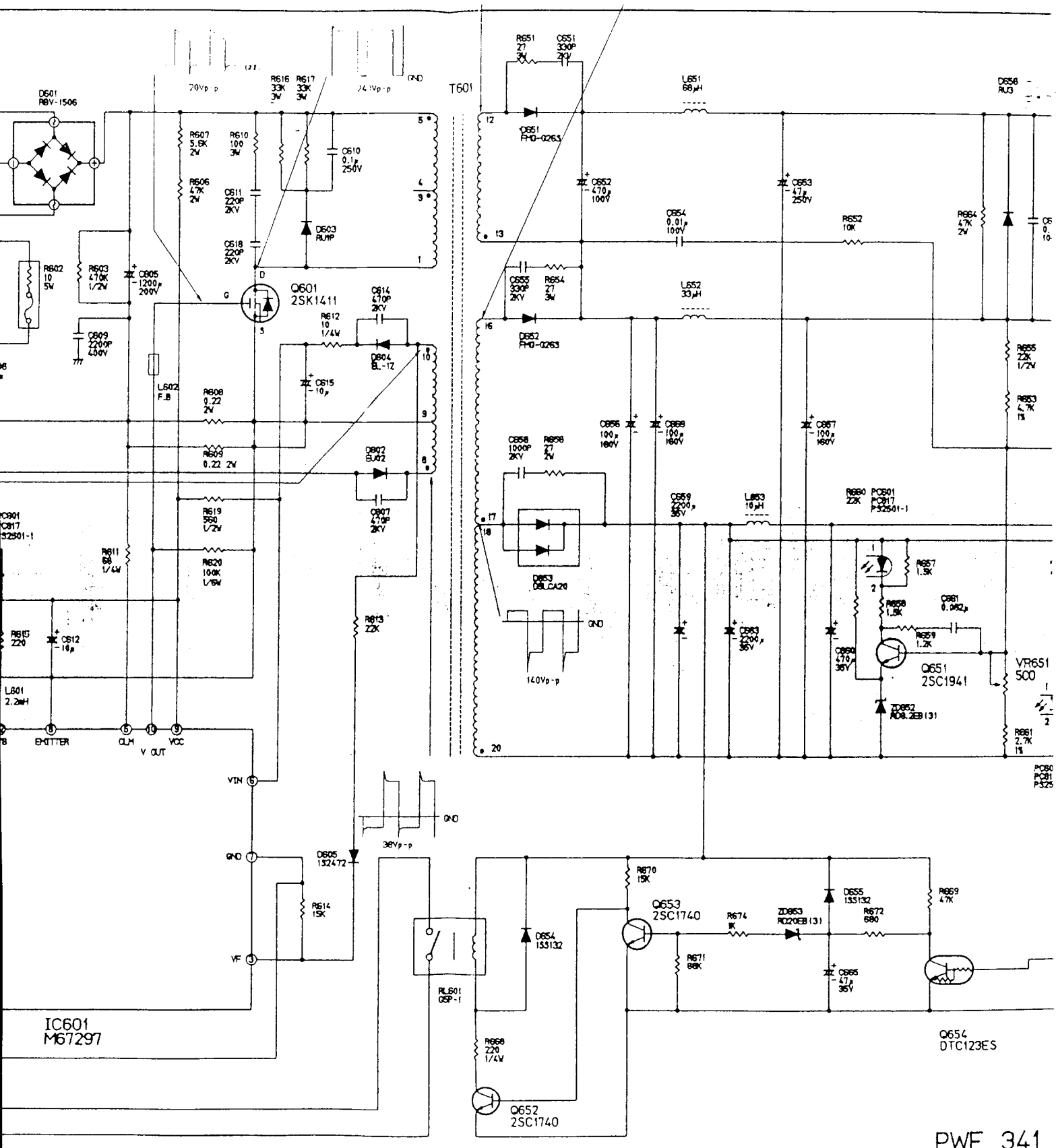
SYMBOL	PARTS NO	DESCRIPTION
C8C7	421D6013	C,CERAMIC 50V 0.1UF
C8C8	421D6013	C,CERAMIC 50V 0.1UF
C8C9	430B9017	C,ELEC 10V 220UF
C8D0	427F4605	C,FILM 50V 2200PF
C8D1	428B3025	C,METAL FILM 50V 1.0UF
C8F0	432K6208	C,ELEC 63V 33UF
C8G0	428B3013	C,METAL FILM 50V 0.1UF
C8G1	433A4056	C,ELEC 50V 22UF
C8G2	428B3013	C,METAL FILM 50V 0.1UF
C8G3	433A4056	C,ELEC 50V 22UF
C8G4	430B6065	C,ELEC 50V 10UF
C8G8	430B6064	C,ELEC 50V 4.7UF
C8G9	423A1057	C,CERAMIC 50V 330PF
C8H0	427F4009	C,FILM 50V 4700PF
C8H1	433A4056	C,ELEC 50V 22UF
C8H2	430B6064	C,ELEC 50V 4.7UF
C8H3	430B6221	C,ELEC 50V 0.1UF
C8H4	433A3058	C,ELEC 50V 4.7UF
C8H5	430B6065	C,ELEC 50V 10UF
C8H6	430B6064	C,ELEC 50V 4.7UF
C8H7	421D6009	C,CERAMIC 25V 0.1UF
C8H8	430B6041	C,ELEC 25V 47UF
C8H9	430B6061	C,ELEC 50V 1.0UF
C8K0	423A1057	C,CERAMIC 50V 330PF
C8K1	423A1057	C,CERAMIC 50V 330PF
C8K2	423A1057	C,CERAMIC 50V 330PF
C8K3	421D6009	C,CERAMIC 25V 0.1UF
C8K4	421D6009	C,CERAMIC 25V 0.1UF
C8K5	423A1101	C,CERAMIC 50V 470PF
C8K6	430B6065	C,ELEC 50V 10UF
C8K7	421D6009	C,CERAMIC 25V 0.1UF
C8K8	421D6009	C,CERAMIC 25V 0.1UF
C8K9	421D6009	C,CERAMIC 25V 0.1UF
C8L0	430B6060	C,ELEC 50V 0.47UF
C8O1	430B6017	C,ELEC 10V 220UF
C8O2	421D6009	C,CERAMIC 25V 0.1UF
C9C3	430B3152	C,ELEC 25V 100UF
C8O4	423A2015	C,CERAMIC 50V 10PF
C8O5	423A2015	C,CERAMIC 50V 10PF
C8I0	421A0425	C,CERAMIC 50V 0.01UF

SYMBOL	PARTS NO	DESCRIPTION
C811	421A0425	C,CERAMIC 50V 0.01UF
C820	423A2025	C,CERAMIC 50V 15PF
C826	421D6009	C,CERAMIC 25V 0.1UF
C827	421D6009	C,CERAMIC 25V 0.1UF
C829	421D6009	C,CERAMIC 25V 0.1UF
C830	421D6009	C,CERAMIC 25V 0.1UF
C831	43089017	C,ELEC 10V 220UF
C832	43CC0253	C,ELEC 25V 22UF
C833	43088135	C,ELEC 10V 220UF
C834	421D6009	C,CERAMIC 25V 0.1UF
C835	421D6009	C,CERAMIC 25V 0.1UF
C86A	421C3461	C,CERAMIC 16V 0.01UF
C86C	421C3461	C,CERAMIC 16V 0.01UF
C861	43089025	C,ELEC 16V 10UF
C862	43089041	C,ELEC 25V 47UF
C863	43089015	C,ELEC 10V 100UF
C864	421D6009	C,CERAMIC 25V 0.1UF
C865	421D6009	C,CERAMIC 25V 0.1UF
C866	433A7031	C,ELEC 35V 4.7UF
C867	421C0213	C,CERAMIC 50V 1000PF
C868	421D6009	C,CERAMIC 25V 0.1UF
C869	421D6009	C,CERAMIC 25V 0.1UF
C870	421D6009	C,CERAMIC 25V 0.1UF
C871	43086065	C,ELEC 50V 10UF
C901	4203J575	C,CERAMIC 500V 0.01UF
C903	420C9551	C,CERAMIC 500V 100PF
C904	420C9563	C,CERAMIC 500V 1000PF
C905	42040108	C,CERAMIC 2KV 0.01UF
C907	428C0097	C,FILM 250V 0.22UF
C951	427F4013	C,FILM 50V 0.01UF
C952	43089028	C,ELEC 15V 47UF
C953	43089028	C,ELEC 16V 47UF
C955	427F4675	C,FILM 50V 0.1UF
C956	427F4675	C,FILM 50V 0.1UF
C957	427F4013	C,FILM 50V 0.01UF
C958	421D6009	C,CERAMIC 25V 0.1UF
C959	423A1103	C,CERAMIC 50V 560PF
C960	42908501	C,METAL FILM 1.5KV 1000PF
C961	43089028	C,ELEC 16V 47UF
C962	423A1101	C,CERAMIC 50V 470PF

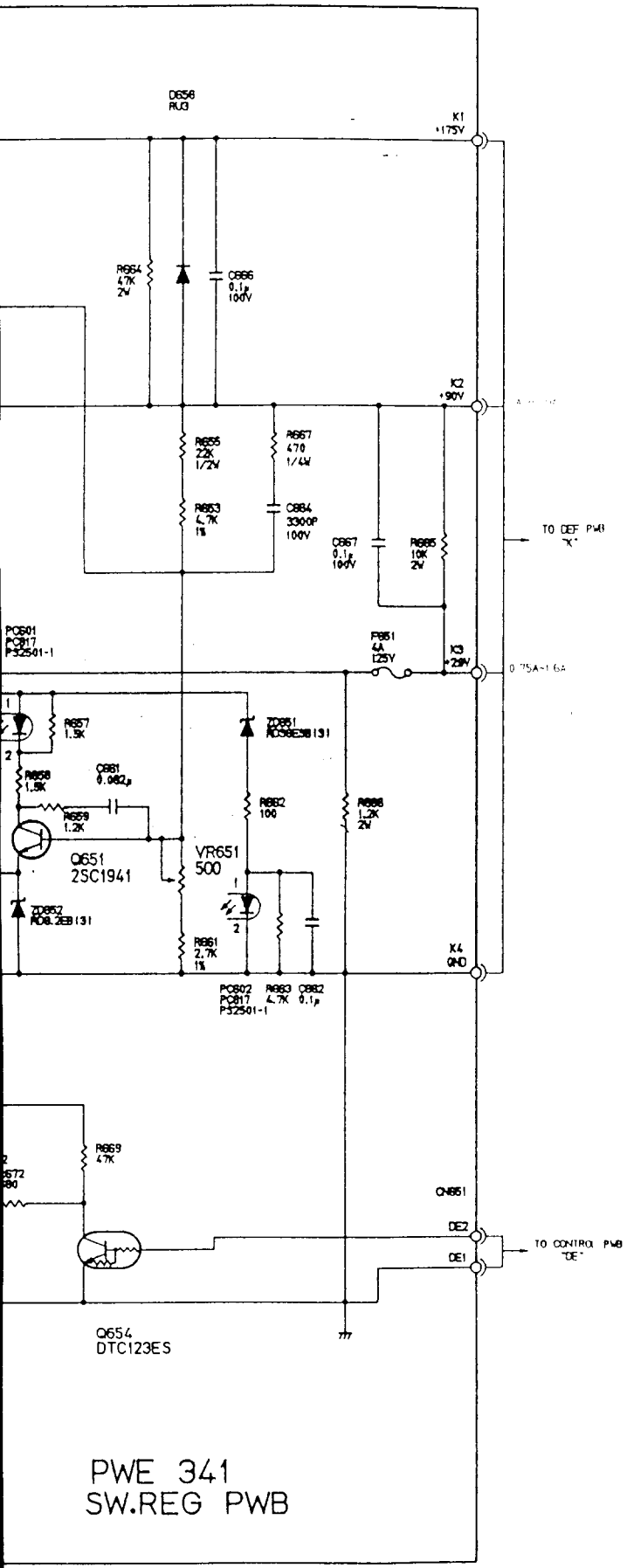
SYMBOL	PARTS NO	DESCRIPTION
C963	427F4675	C,FILM 50V 0.1UF
C964	428JJ115	C,METAL 1000V 0.047UF
C965	421D6009	C,CERAMIC 25V 0.1UF
C966	423A2045	C,CERAMIC 50V 100PF
C967	43089025	C,ELEC 16V 10UF
C968	43089025	C,ELEC 16V 10UF
C969	43086029	C,ELEC 16V 100UF

MODEL JC-1741UMA/JC1742UMA SW. REG PWB
SCHEMATIC DIAGRAM

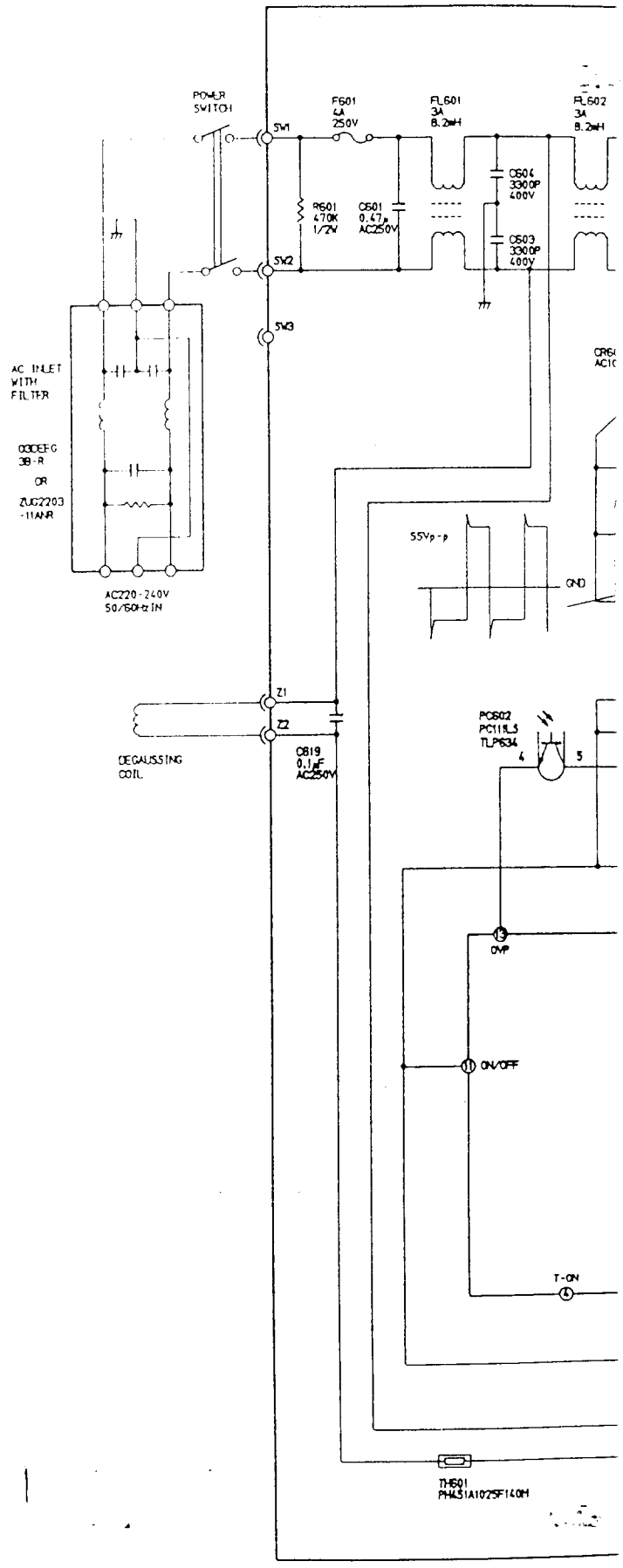



T601
Q601
2SK1411
Q651
2SC1941
Q653
2SC1740
Q652
2SC1740
Q654
DTC123ES
IC601
M67297
VR651
500
EMITTER
CLM
VCC
V OUT
VIN
GND
VF
20Vp-p
74.3Vp-p
140Vp-p
38Vp-p
PWE 341
SW.REG P

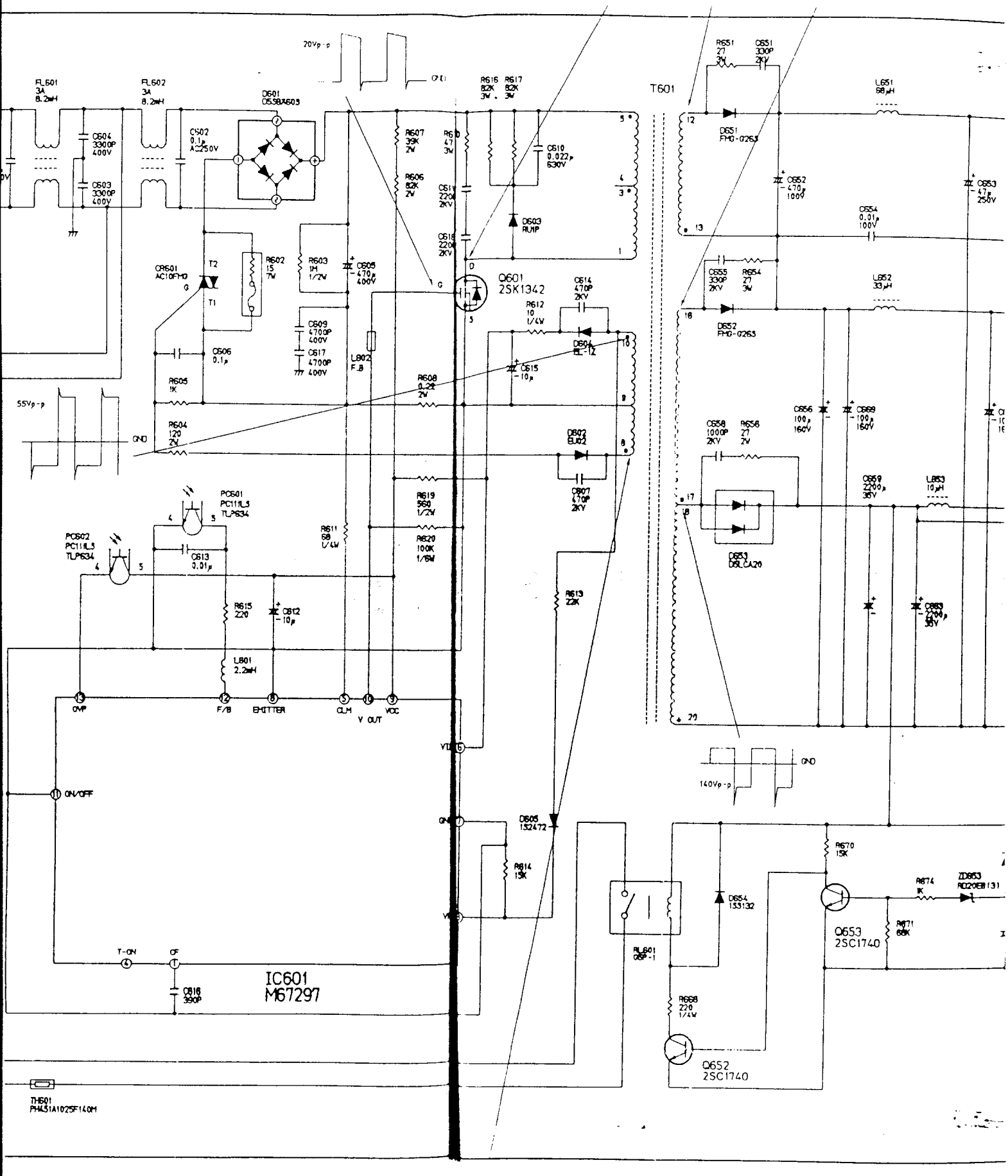
MODEL JC-1741UMB/R/B(EE) SW
SCHEMATIC DIAGRAM



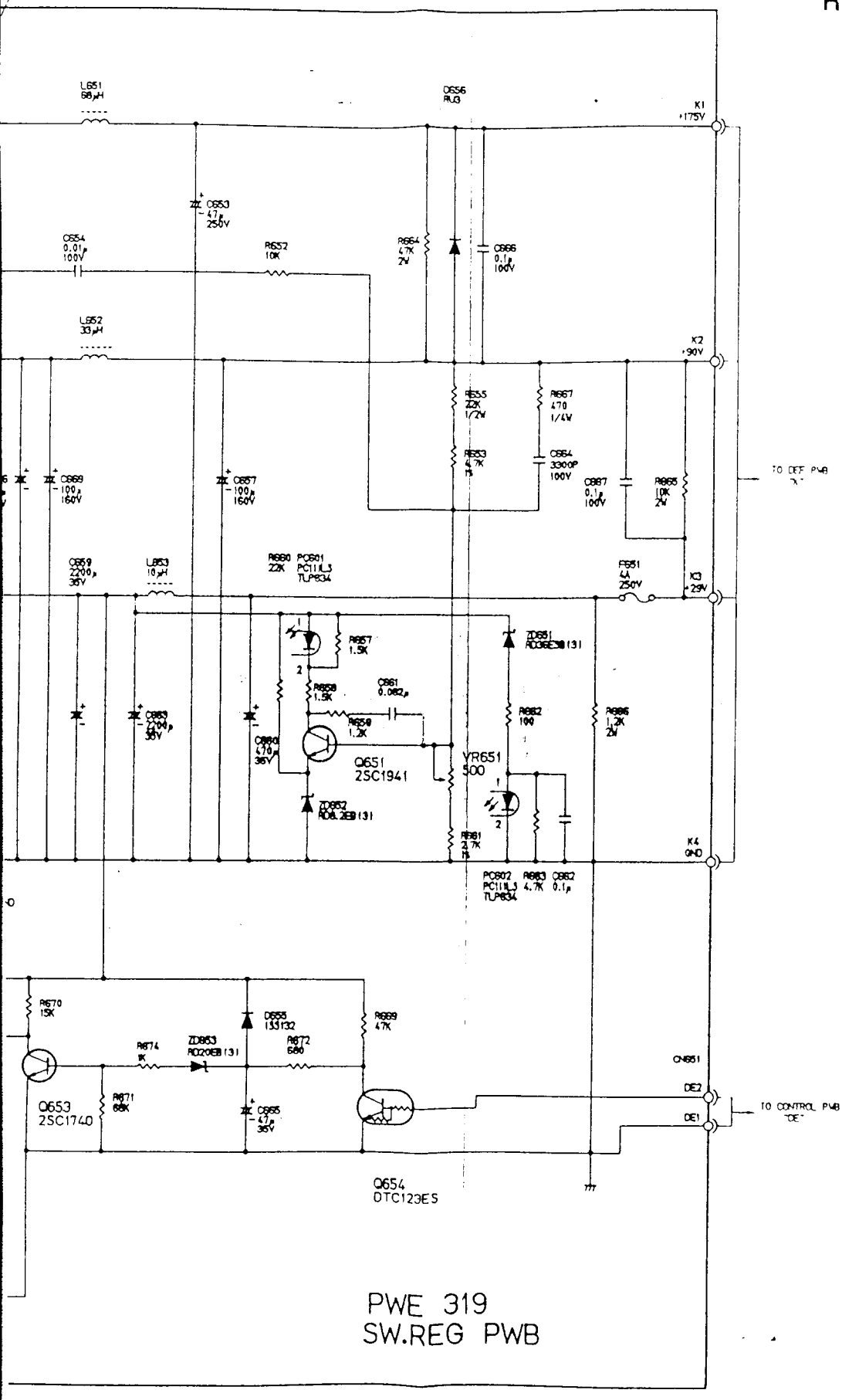
PWE 341
SW.REG PWB



MB/R/B(EE) SW. REG PWB
RAM

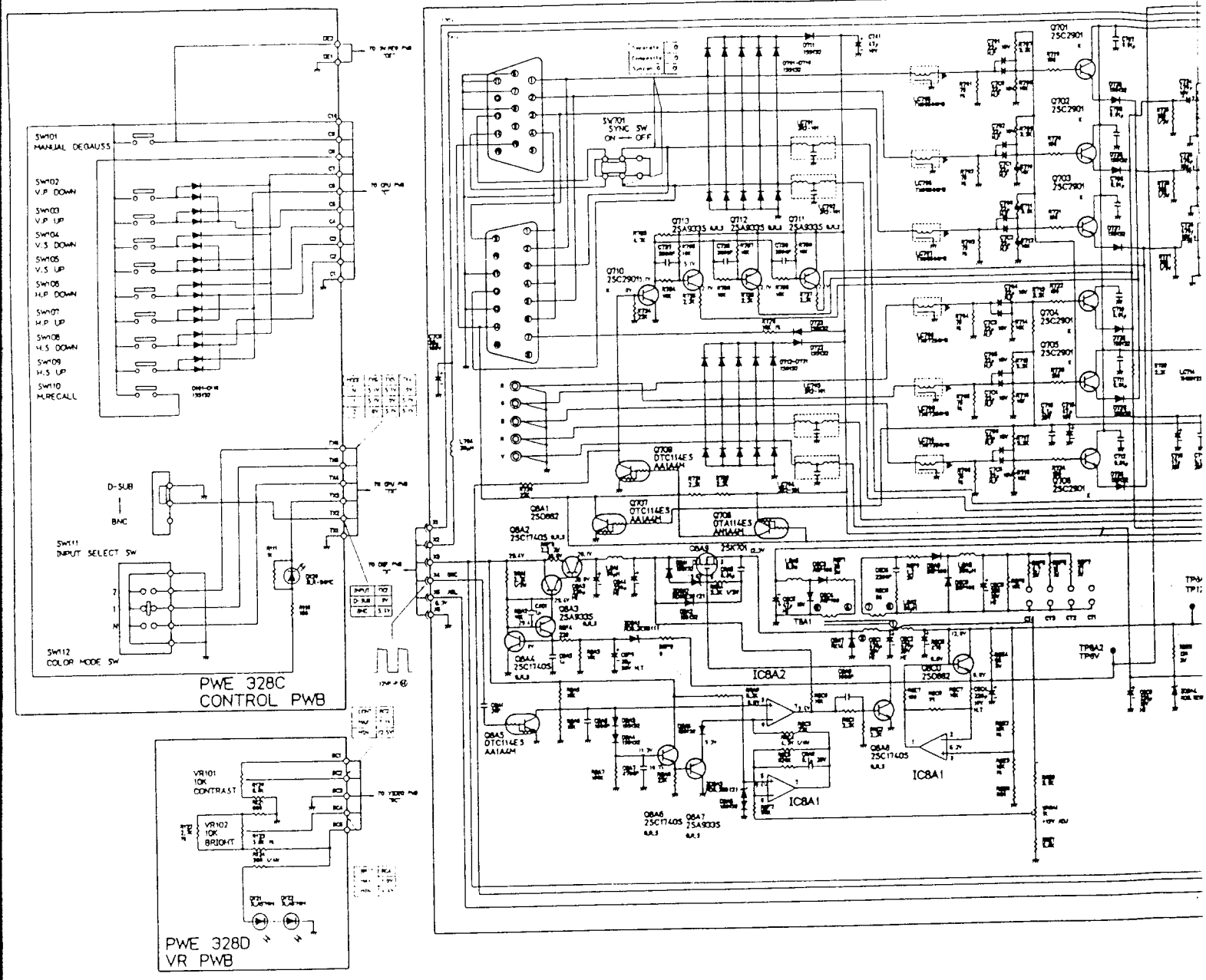


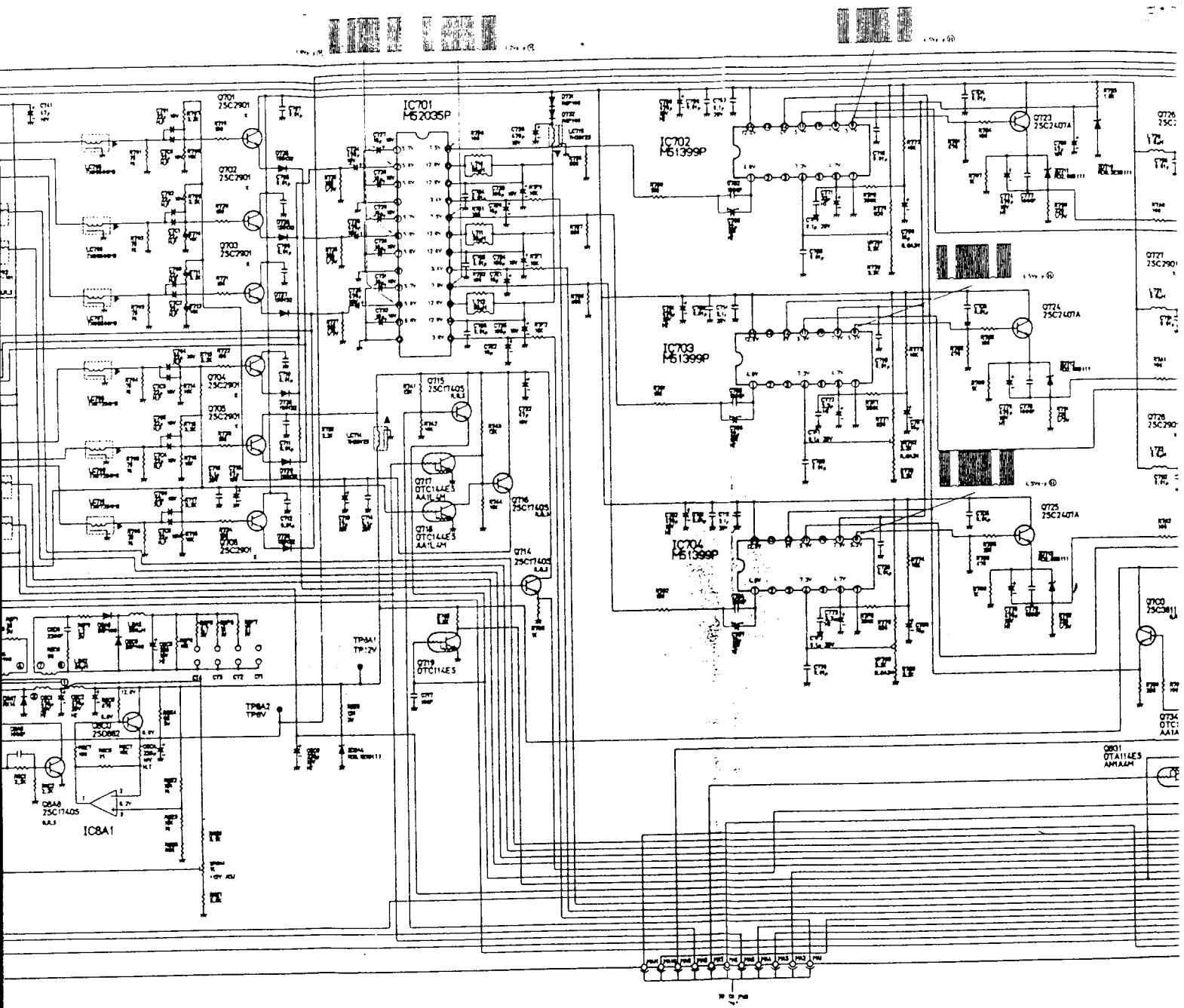
RUN Nc

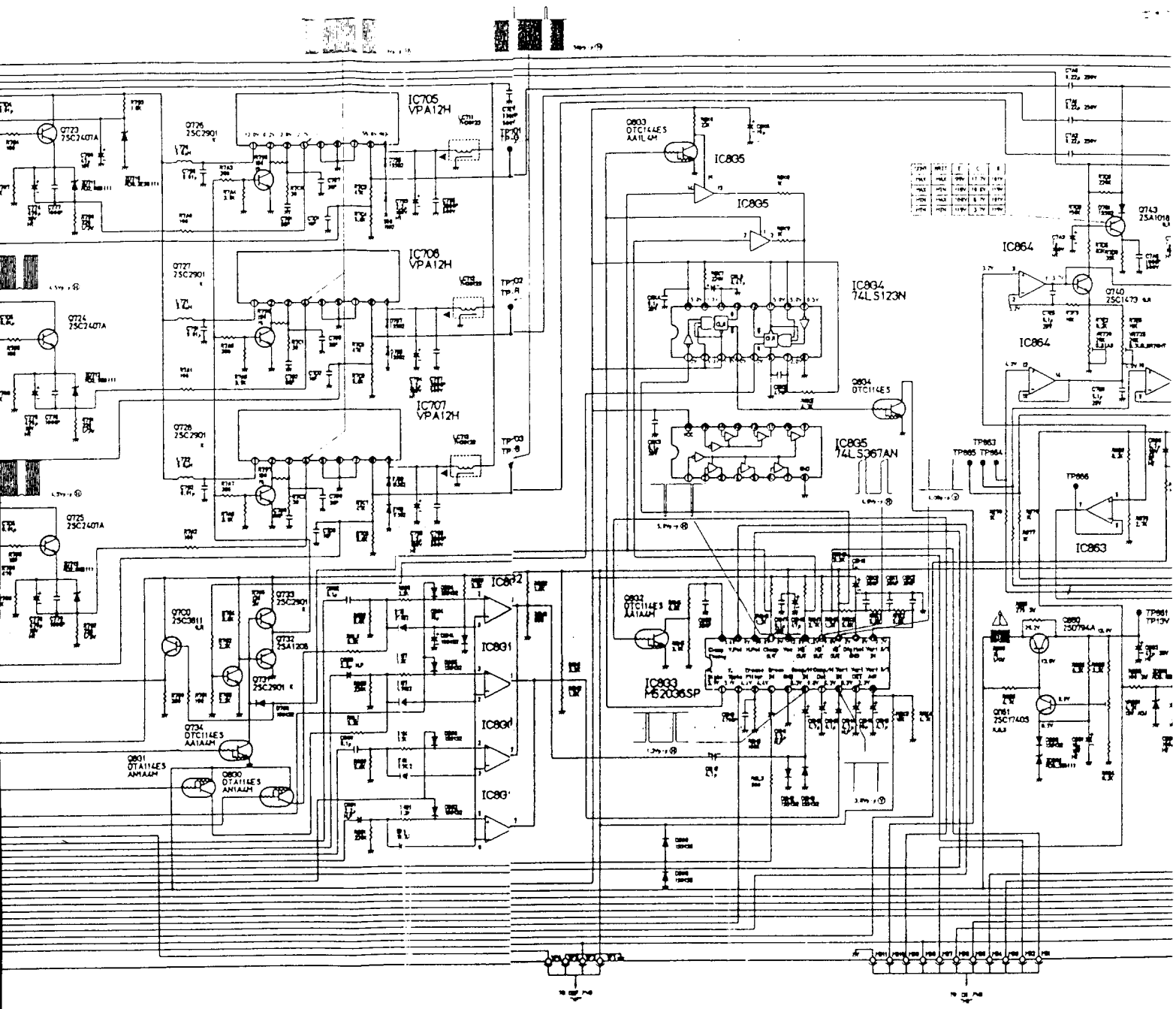


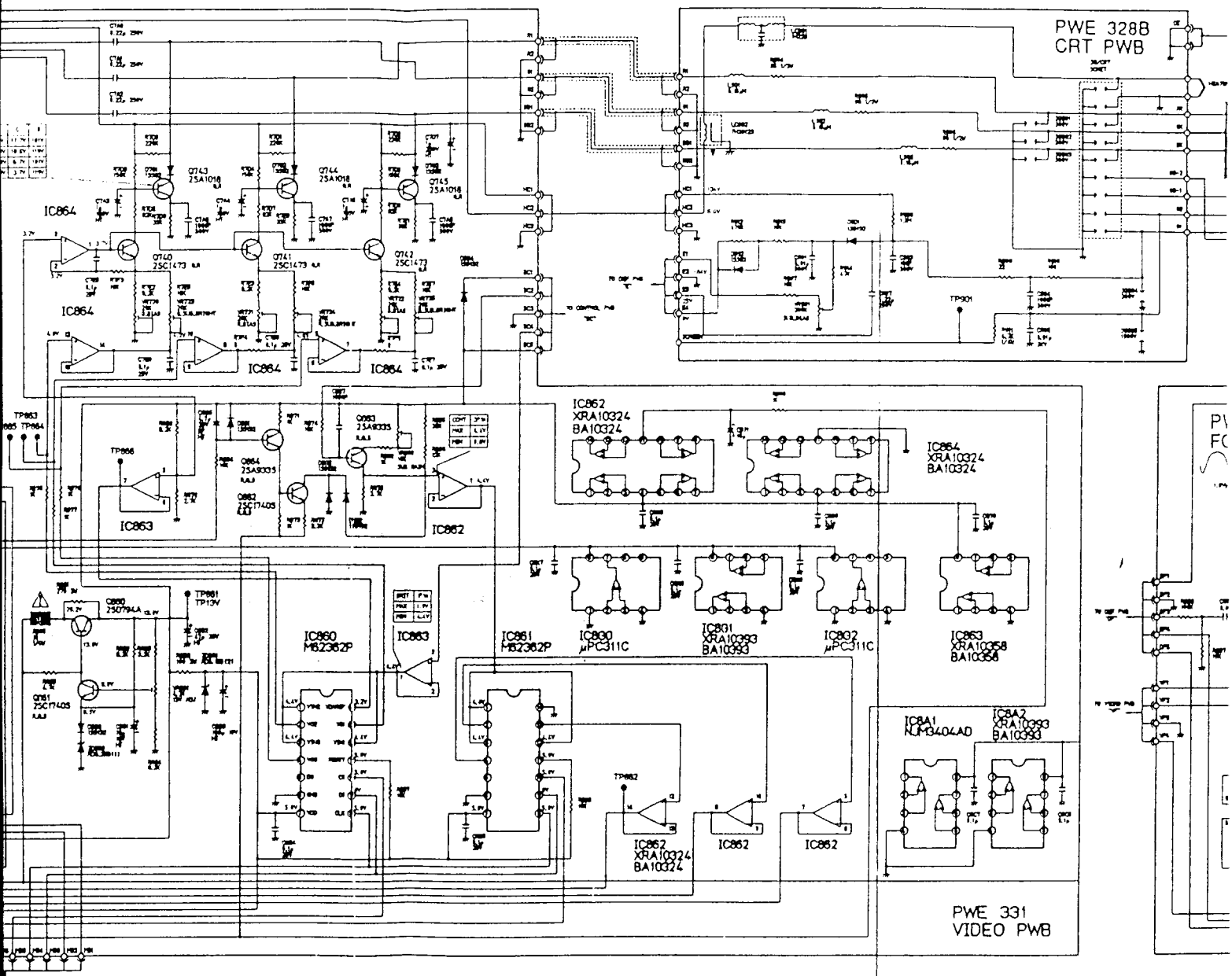
PWE 319
SW.REG PWB

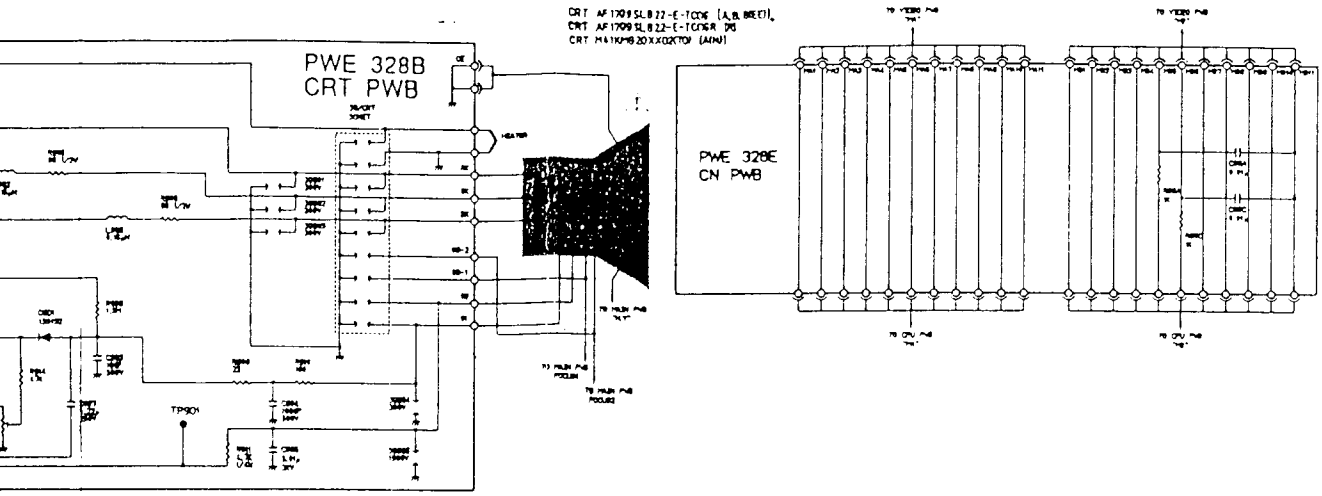
MODEL JC-1741UMA/UMB/UMB(EE)/UMR/JC-1742UMA
SCHEMATIC DIAGRAM

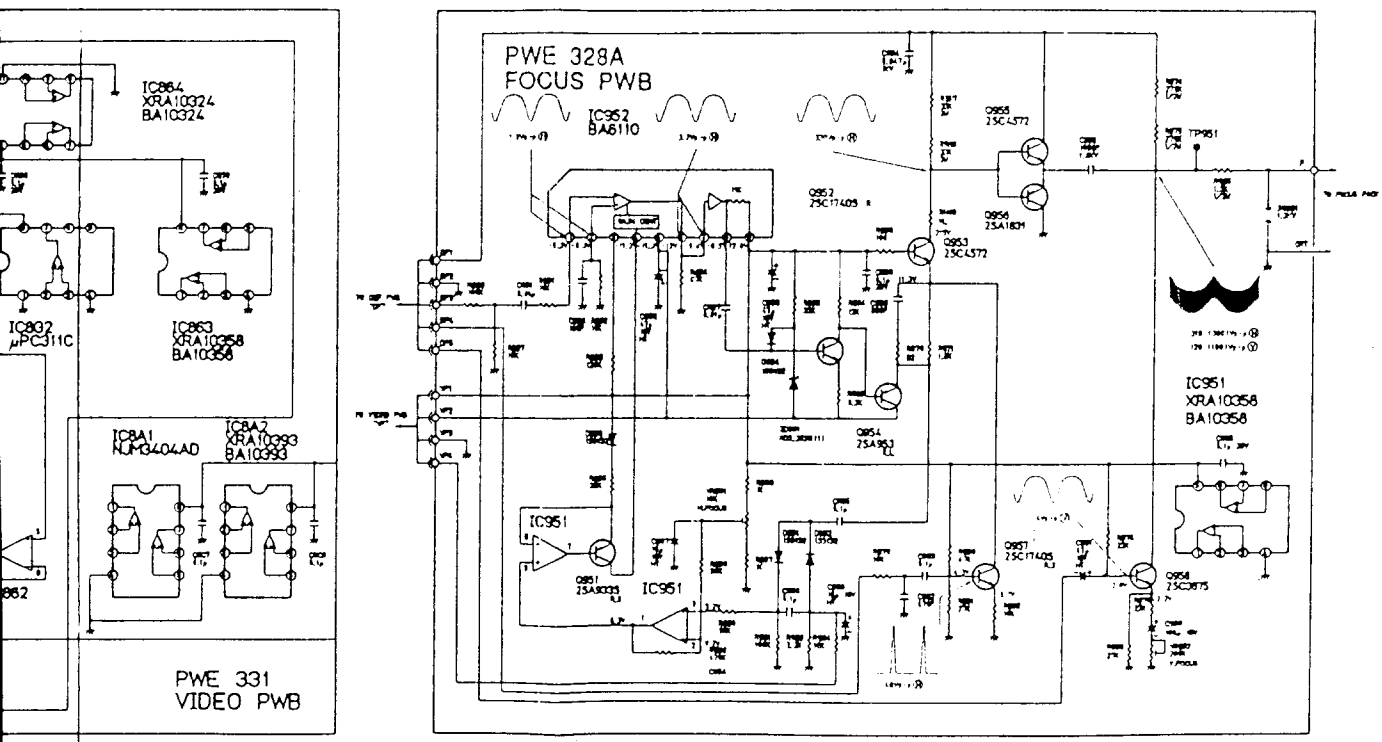



IC701
M52035P
IC702
M51399P
IC703
M51399P
IC704
M51399P
IC8A1
TP8A1
TP12V
TP8A2
TP8V

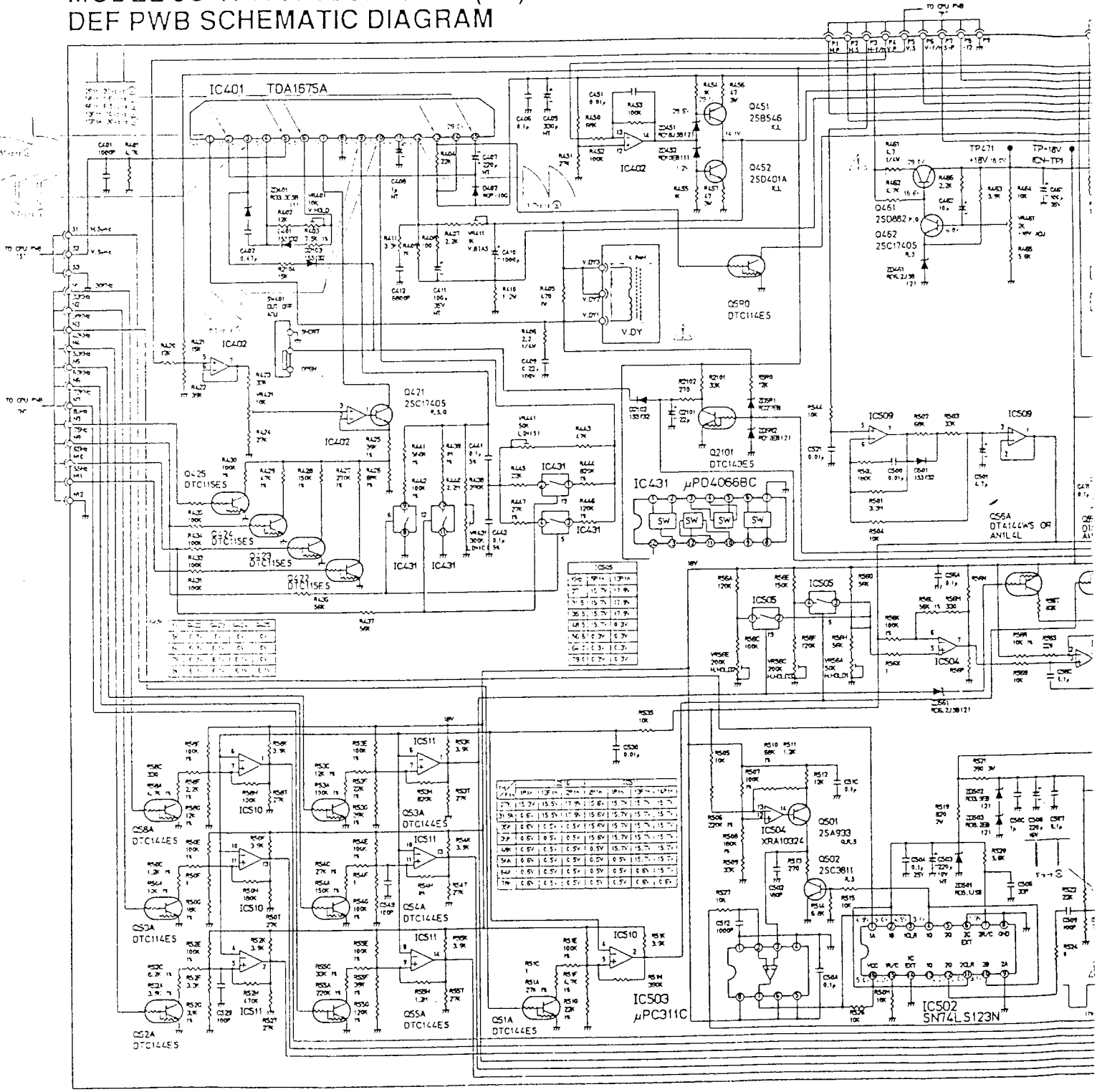

IC705
VPA12H
IC706
VPA12H
IC707
VPA12H
IC805
IC805
IC804
74LS123N
IC805
74LS367AN
IC803
M62036SP
IC864
IC864
IC863
IC802
IC801
IC800


PWE 328B
CRT PWB
IC864
IC863
IC862
IC860
M62362P
IC861
M62362P
IC800
μPC311C
IC801
XRA10393
BA10393
IC802
μPC311C
IC863
XRA10358
BA10358
IC8A1
NJM3404AD
IC8A2
XRA10393
BA10393
PWE 331
VIDEO PWB

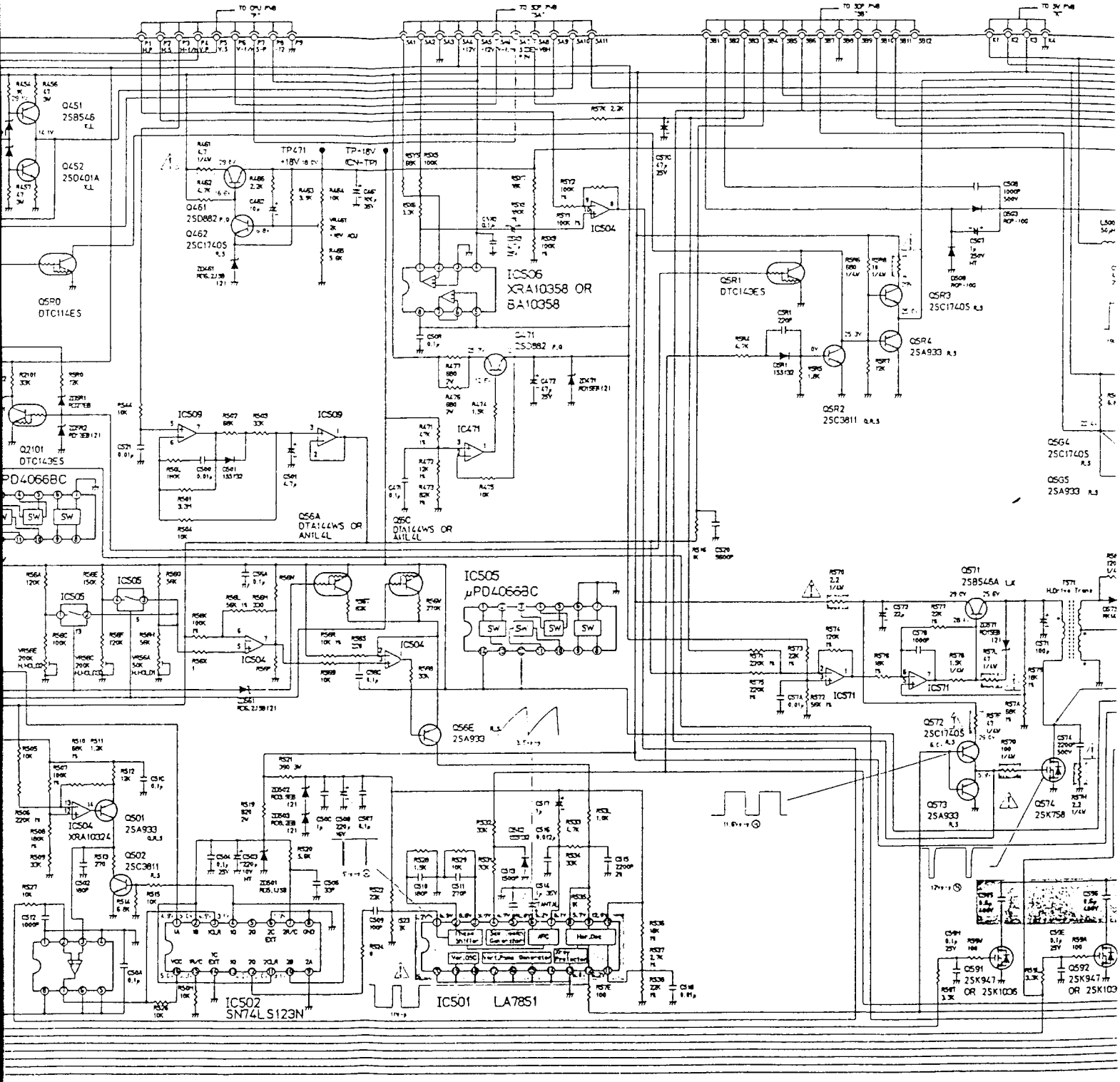

PWE 328B
CRT PWB
PWE 328E
CN PWB

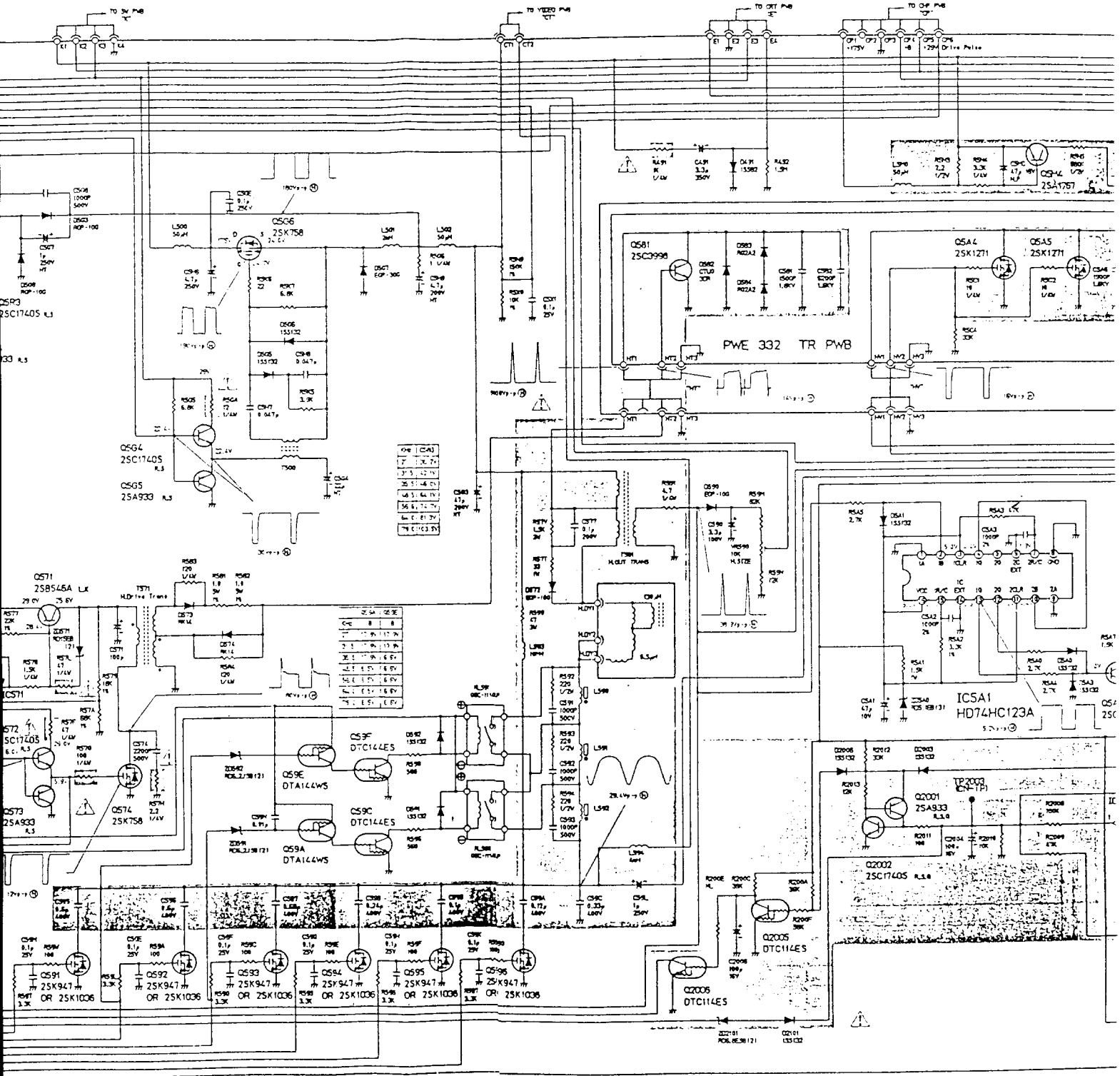

PWE 328A
FOCUS PWB
IC952
BA6110
IC951
XRA10358
BA10358
IC951
IC951
PWE 331
VIDEO PWB

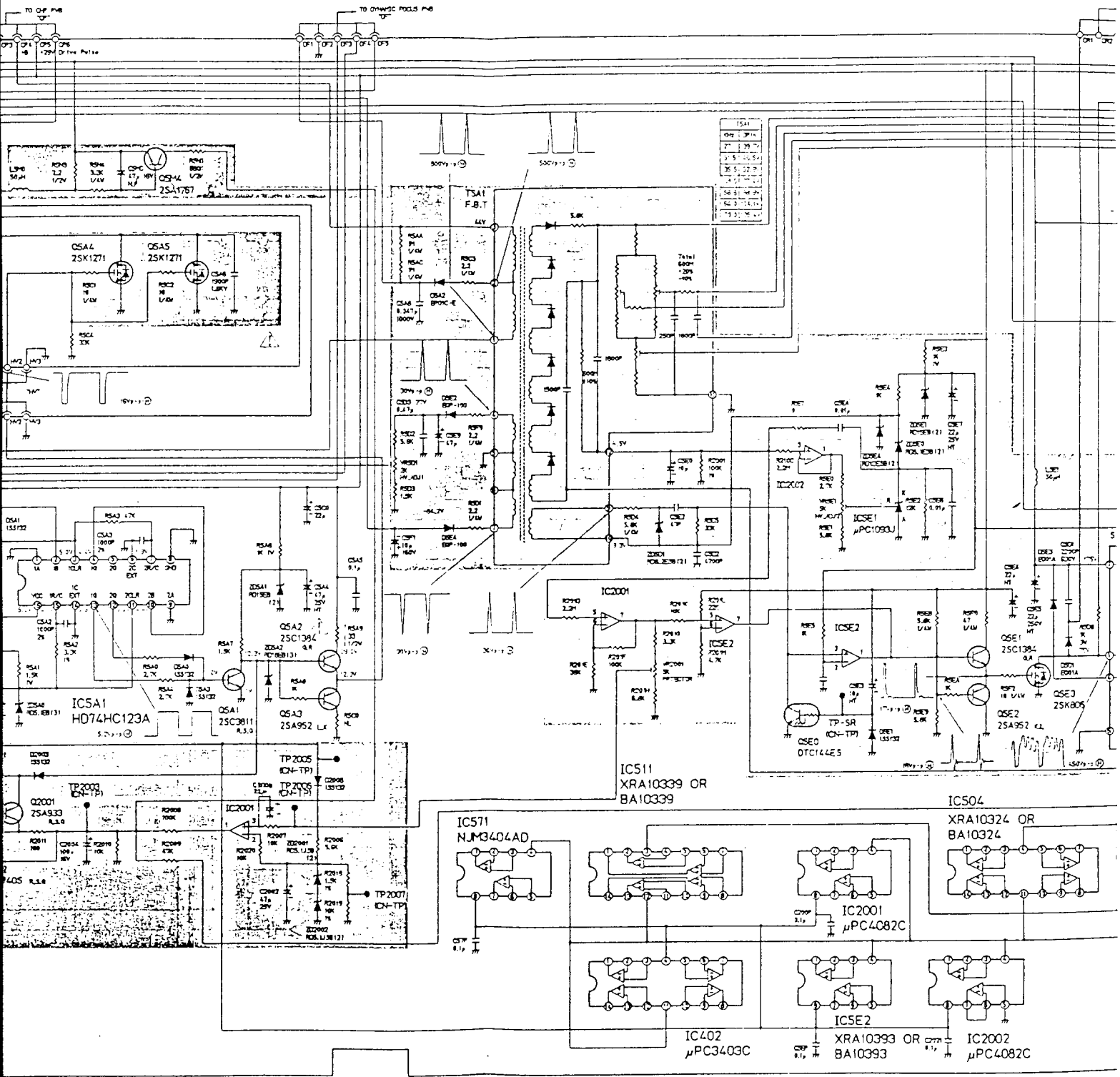
MODEL JC-1741UMA/UMB/UMB(EE)/UMR/JC-1742UMA
DEF PWB SCHEMATIC DIAGRAM



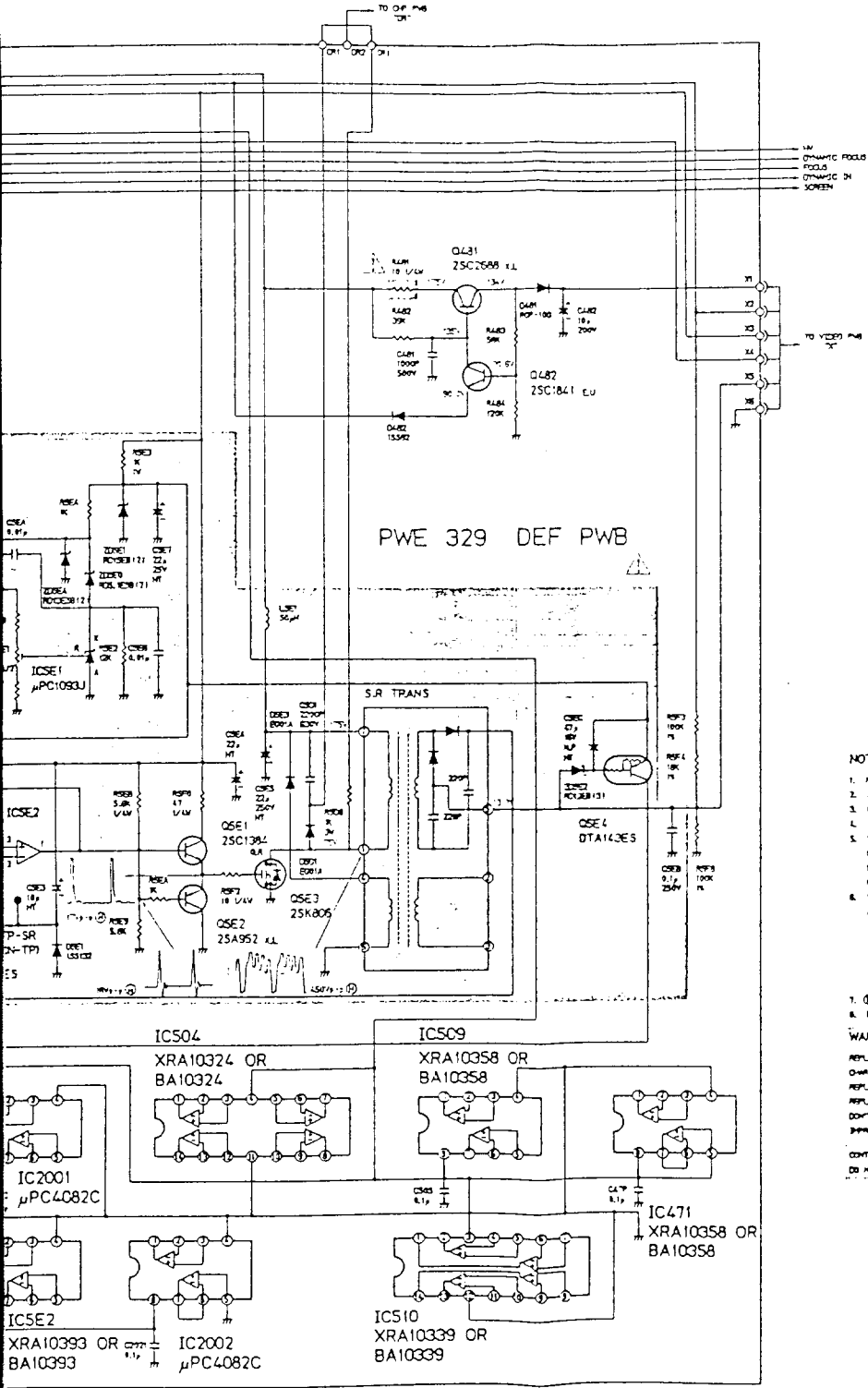
2UMA


Q451
2SB546
Q452
2SD401A
Q461
2SD882
Q462
2SC1740S
TP471
+18V
TP-18V
IC504
IC506
XRA10358 OR
BA10358
Q5R0
DTC114ES
Q5R1
DTC143ES
Q5R2
2SC3811
Q5R3
2SC1740S
Q5R4
2SA933
Q5G4
2SC1740S
Q5G5
2SA933
Q2101
DTC143ES
IC509
Q56A
DTA144WS OR
AN1L4L
Q56C
DTA144WS OR
AN1L4L
IC471
IC505
μPD40668C
Q56E
2SA933
IC504
XRA10324
Q501
2SA933
Q502
2SC3811
IC502
SN74LS123N
IC501
LA7851
Q571
2SB546A
IC571
Q572
2SC1740S
Q573
2SA933
Q574
2SK758
Q591
2SK947
OR 2SK1036
Q592
2SK947
OR 2SK1036


PWE 332 TR PWB
Q5G6 2SK758
Q5G4 2SC1740S
Q5G5 2SA933
Q571 2SB546A
Q573 2SA933
Q574 2SK758
Q581 2SC3998
Q5A4 2SK1271
Q5A5 2SK1271
IC5A1 HD74HC123A
Q59F DTC144ES
Q59E DTA144WS
Q59C DTC144ES
Q59A DTA144WS
Q2001 2SA933
Q2002 2SC1740S
Q2005 DTC114ES
Q2006 DTC114ES
Q591 2SK947 OR 2SK1036
Q592 2SK947 OR 2SK1036
Q593 2SK947 OR 2SK1036
Q594 2SK947 OR 2SK1036
Q595 2SK947 OR 2SK1036
Q596 2SK947 OR 2SK1036


TO O/P PWB
TO DYNAMIC FOCUS PWB
Drive Pulse
Q5A4
2SK1271
Q5A5
2SK1271
Q5A4
2SA1787
TSA1
F.B.T
IC5A1
HD74HC123A
Q5A1
2SC3811
Q5A2
2SC1384
Q5A3
2SA952
Q2001
2SA933
TP2003
(ON-TP)
TP2005
(ON-TP)
TP2006
(ON-TP)
TP2007
(ON-TP)
IC2001
IC2002
IC5E1
μPC1093J
IC5E2
Q5E1
2SC1384
Q5E2
2SA952
Q5E3
2SK805
Q5E0
DTC144ES
TP-SR
(ON-TP)
IC511
XRA10339 OR
BA10339
IC571
NJM3404AD
IC504
XRA10324 OR
BA10324
IC2001
μPC4082C
IC402
μPC3403C
IC5E2
XRA10393 OR
BA10393
IC2002
μPC4082C

RUN No.



NOTES

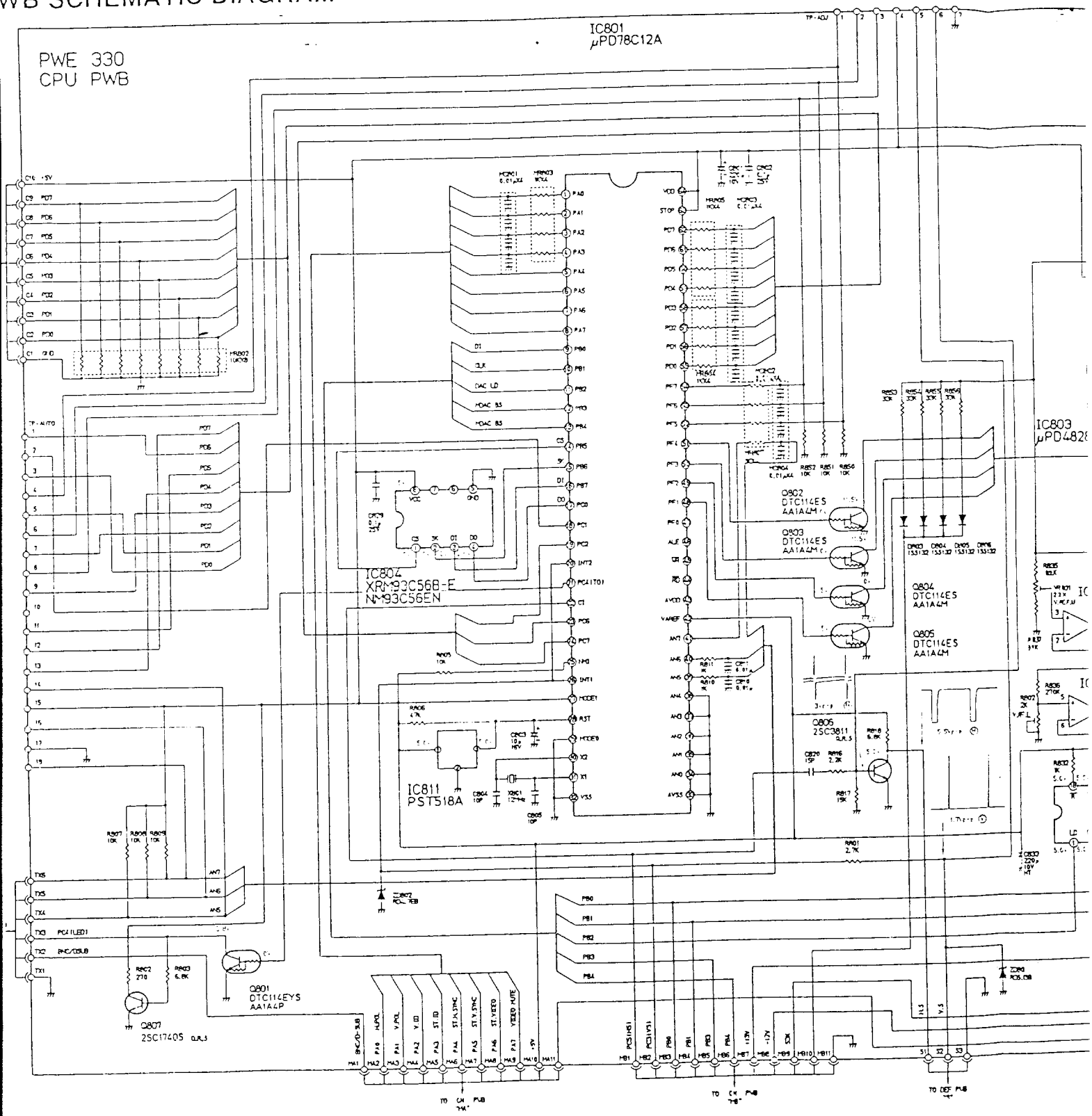
1. RESISTOR VALUES ARE IN Ω (OHM) K = 1,000Ω M = 1,000,000Ω
2. ALL RESISTORS ARE 1/4WATT EXCEPT WHERE OTHERWISE INDICATED.
3. CAPACITOR VOLUES ARE IN μF UNLESS OTHERWISE INDICATED. P = PF
4. ALL CAPACITORS ARE 50VOLTS EXCEPT WHERE OTHERWISE INDICATED.
5. VOLTAGES AND WAVEFORMS ARE MEASURED UNDER THE UNLESS OTHERWISE INDICATED " H CHARACTER SIGNALS. THE CONTRAST CONTROL IS MAXIMUM. THE BRIGHTNESS CONTROL IS MINIMUM AND ALL OTHER CONTROLS ARE NORMAL OPERATION.
6. VOLTAGES AND WAVEFORMS ARE MEASURD UNDER THE FOLLOWING SYNC. AND VIDEO EXCEPT WHERE OTHERWISE INDICATED.
   SYNC : HORIZONTAL RATE - 31.5KHz VERTICAL RATE - 72HZ
   SEPARATE SYNC TTL LEVEL
   HORIZONTAL SYNC NEGATIVE
   VIDEO : ANALOG 0.7Vp-p POSITIVE
   MODE IN : OFF
7. Ⓗ ----- HORIZONTAL RATE Ⓥ ----- VERTICAL RATE
8. L : TTL LOW LEVEL H : TTL HIGH LEVEL

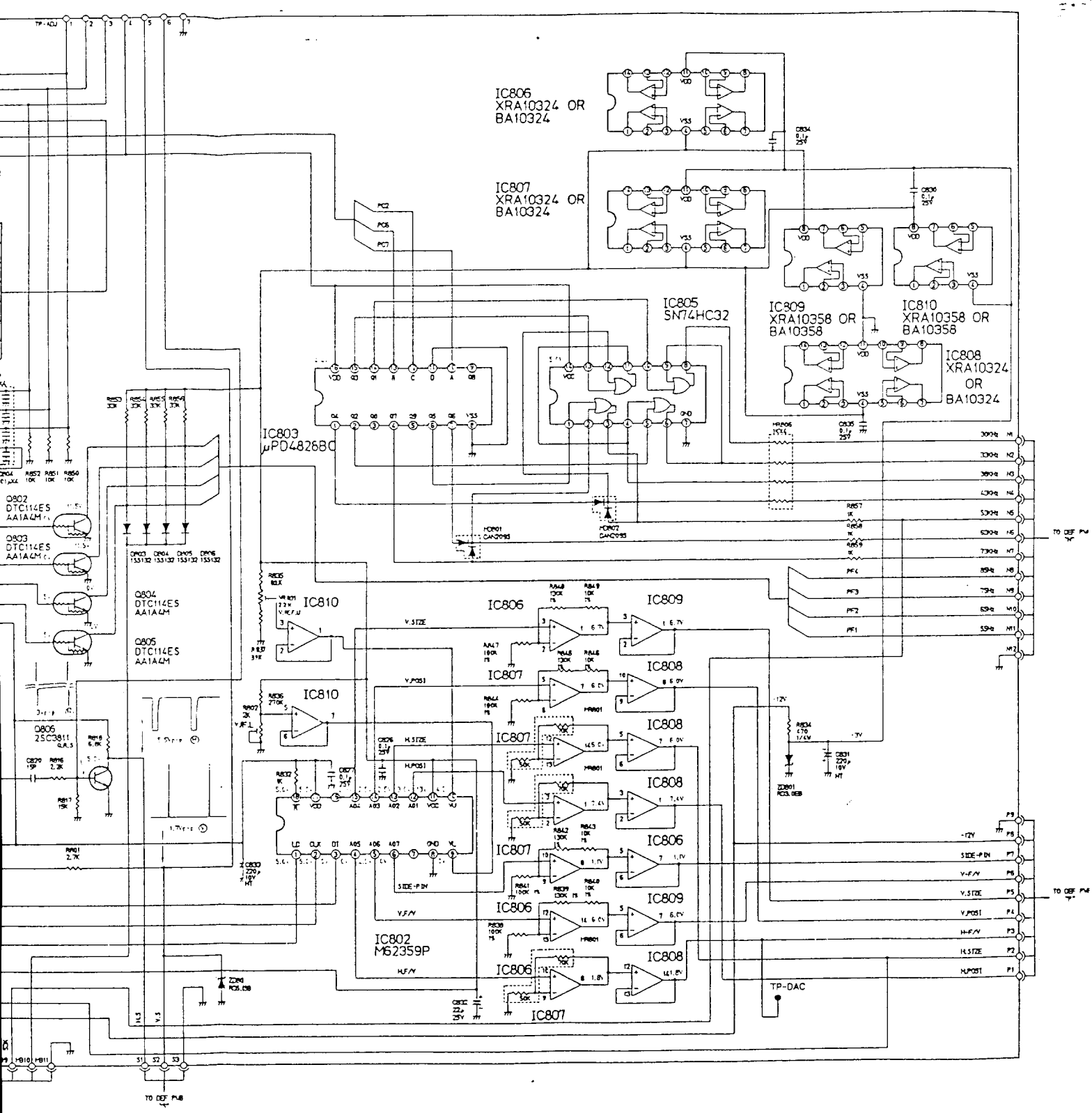
WARNING

REPLACEMENT PARTS WHICH HAVE SPECIAL SAFETY CHARACTERISTICS ARE IDENTIFIED BY ⚠ MARKING ON THE SCHEMATICS. REPLACE THESE CRITICAL COMPONENTS WITH RECOMMENDED REPLACEMENT PARTS. DON'T DEGRADE THE SAFETY OF THE SET THROUGH IMPROPER SERVICING.

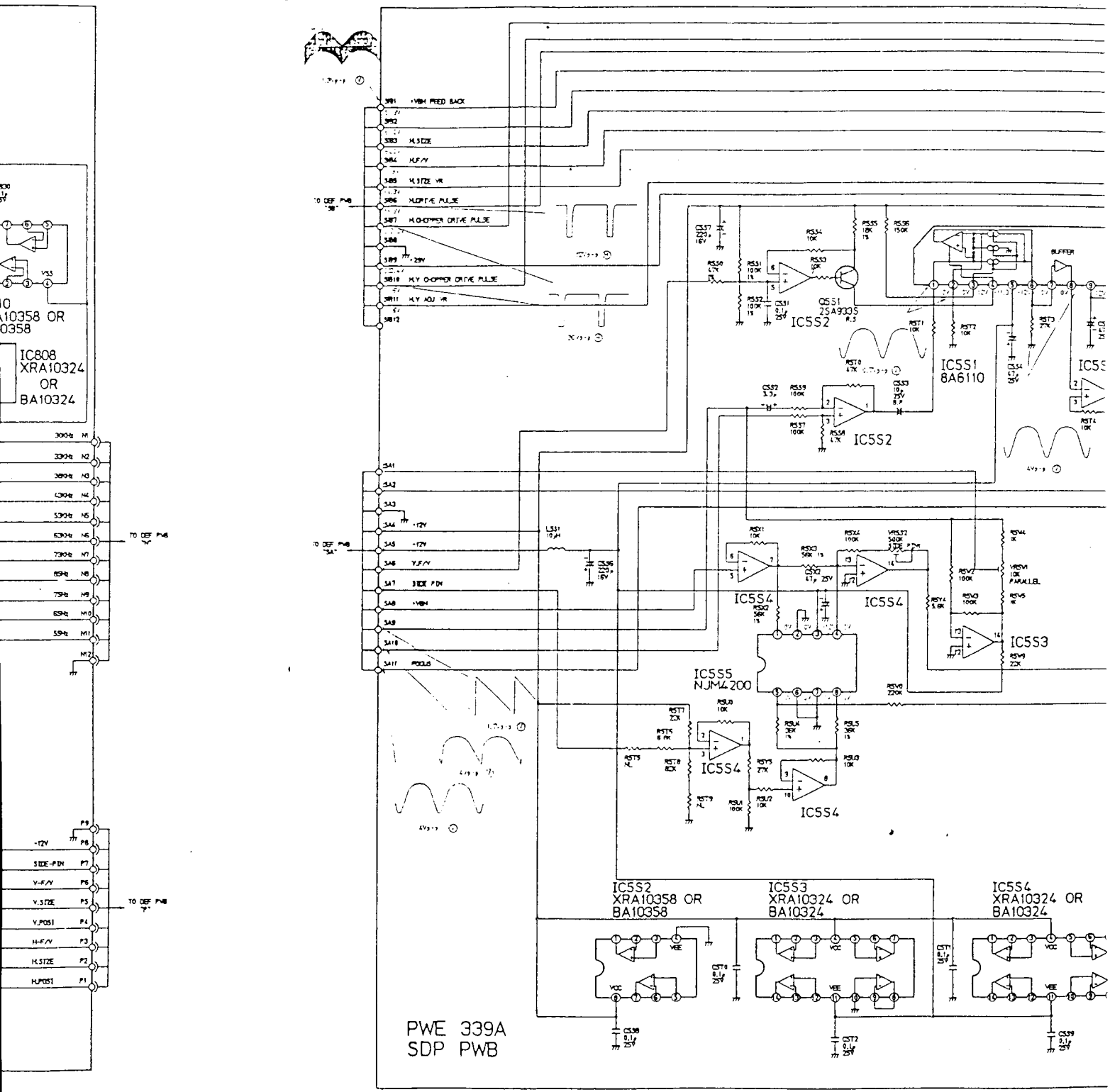
CONTROL 131 MARKED ⚠ IS PERMANENTLY PROGRAMMED. DO NOT ATTEMPT TO DEFEAT OR IMPROPERLY REPLACE.

L JC-1741UMA/UMB/UMB(EE)/UMR/JC-1742UMA
WB SCHEMATIC DIAGRAM

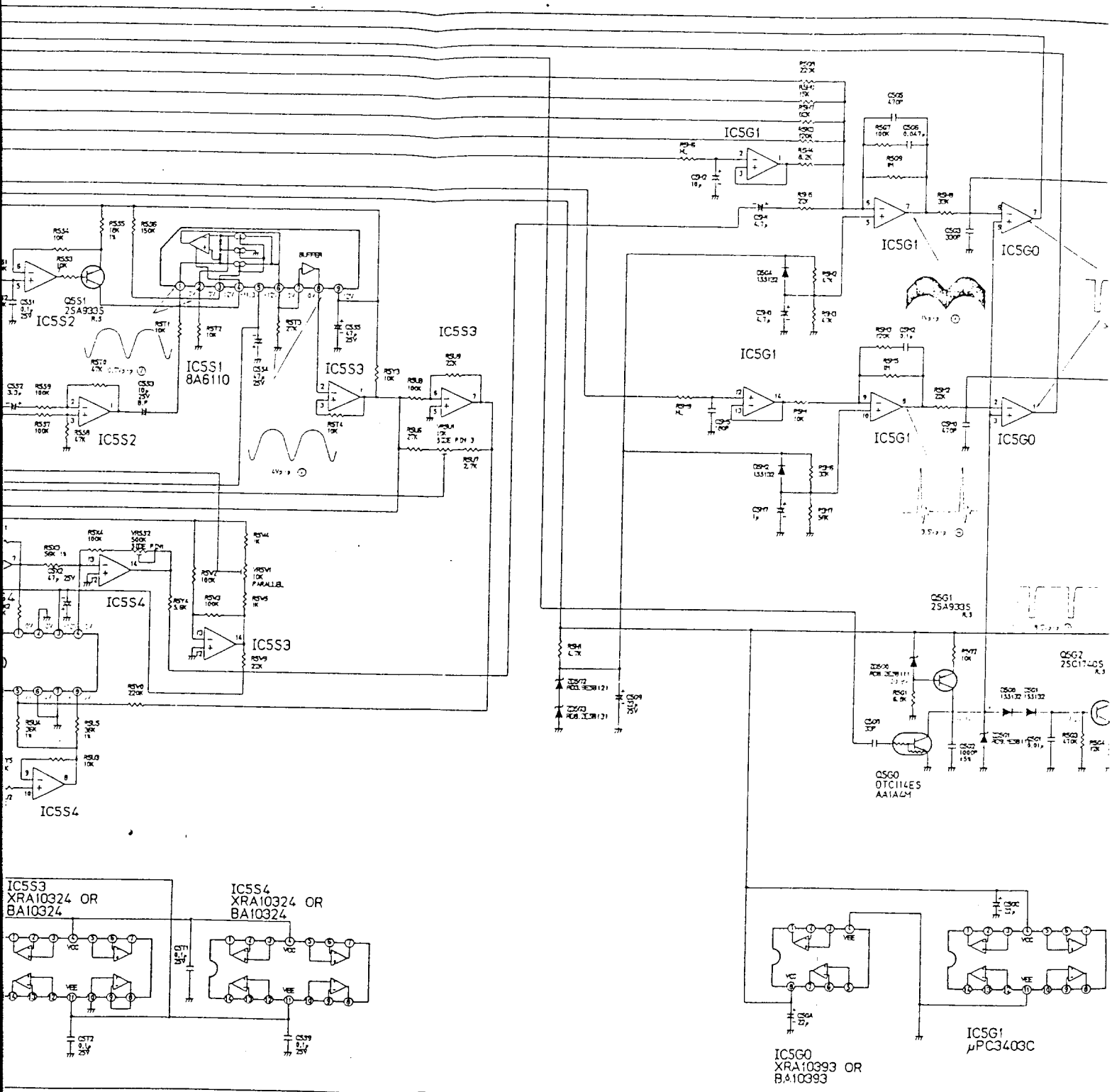


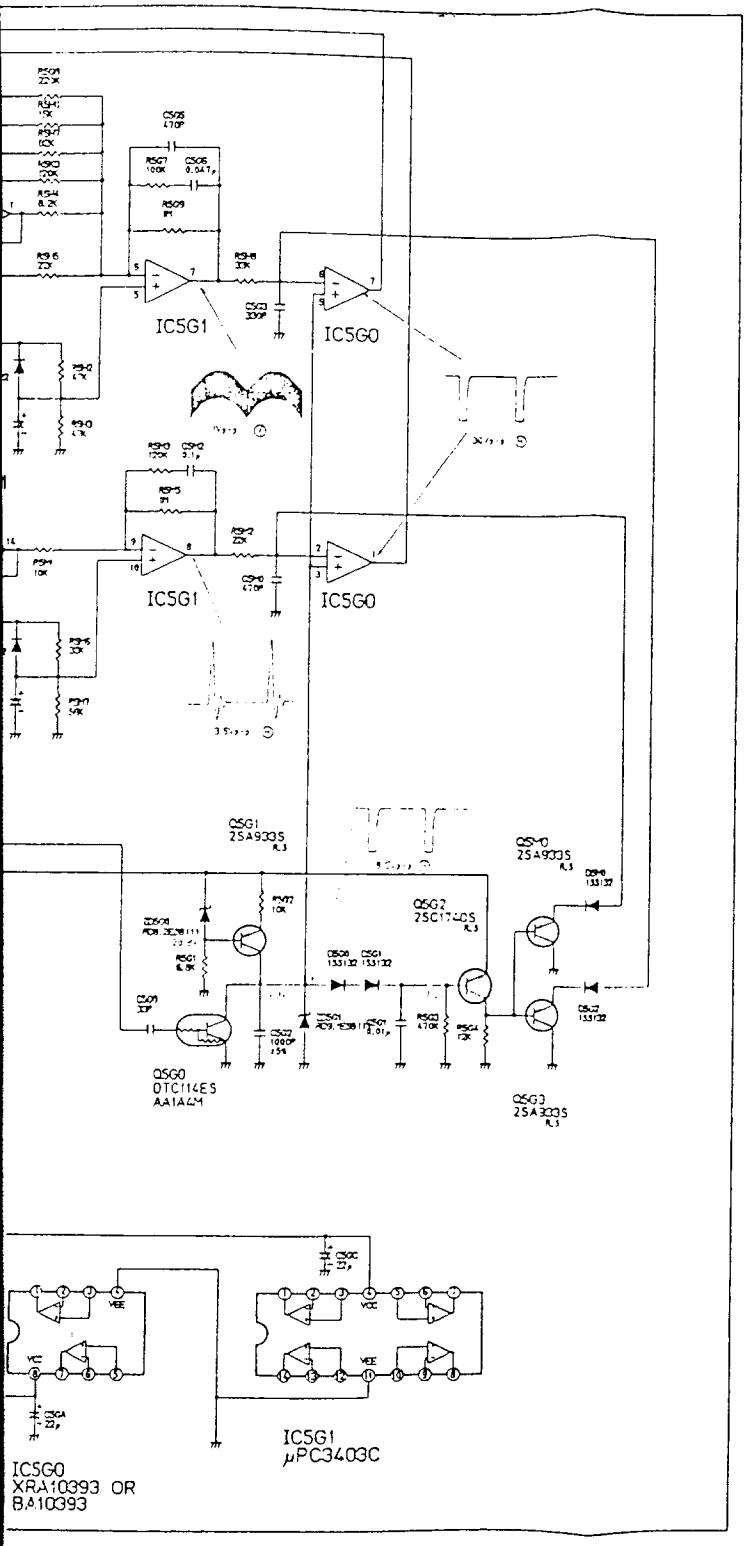

IC806
XRA10324 OR
BA10324
IC807
XRA10324 OR
BA10324
IC805
SN74HC32
IC809
XRA10358 OR
BA10358
IC810
XRA10358 OR
BA10358
IC808
XRA10324
OR
BA10324
IC803
μPD48268C
IC802
M62359P
Q802
DTC114ES
Q803
DTC114ES
Q804
DTC114ES
Q805
DTC114ES
Q806
2SC3811
IC810
IC806
IC809
IC807
IC808
IC807
IC808
IC806
IC809
IC806
IC808
IC807
V.SIZE
V.POS1
H.SIZE
H.POS1
SIDE-PIN
V-F/V
H-F/V
TP-DAC
TO DEF PWB
TO DEF PWB

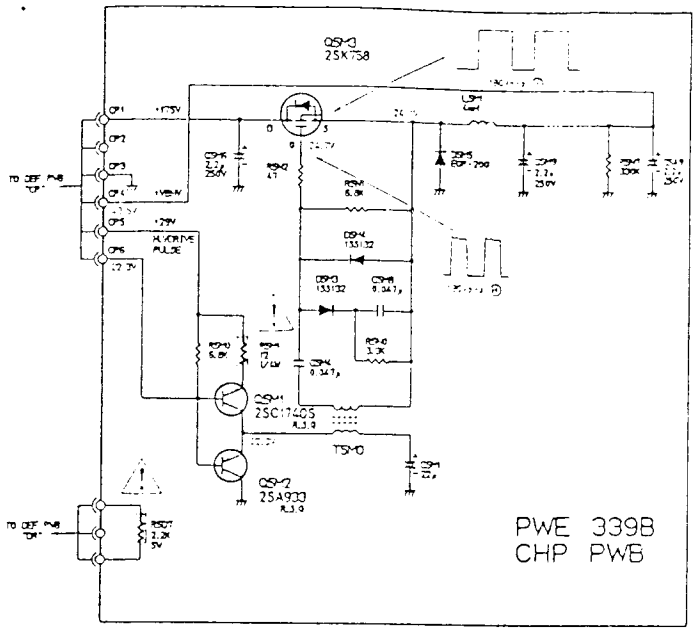
MODEL JC-1741UMA/UMB/UMB(EE)/UMR/JC1742UMA
SDP PWB SCHEMATIC DIAGURAM

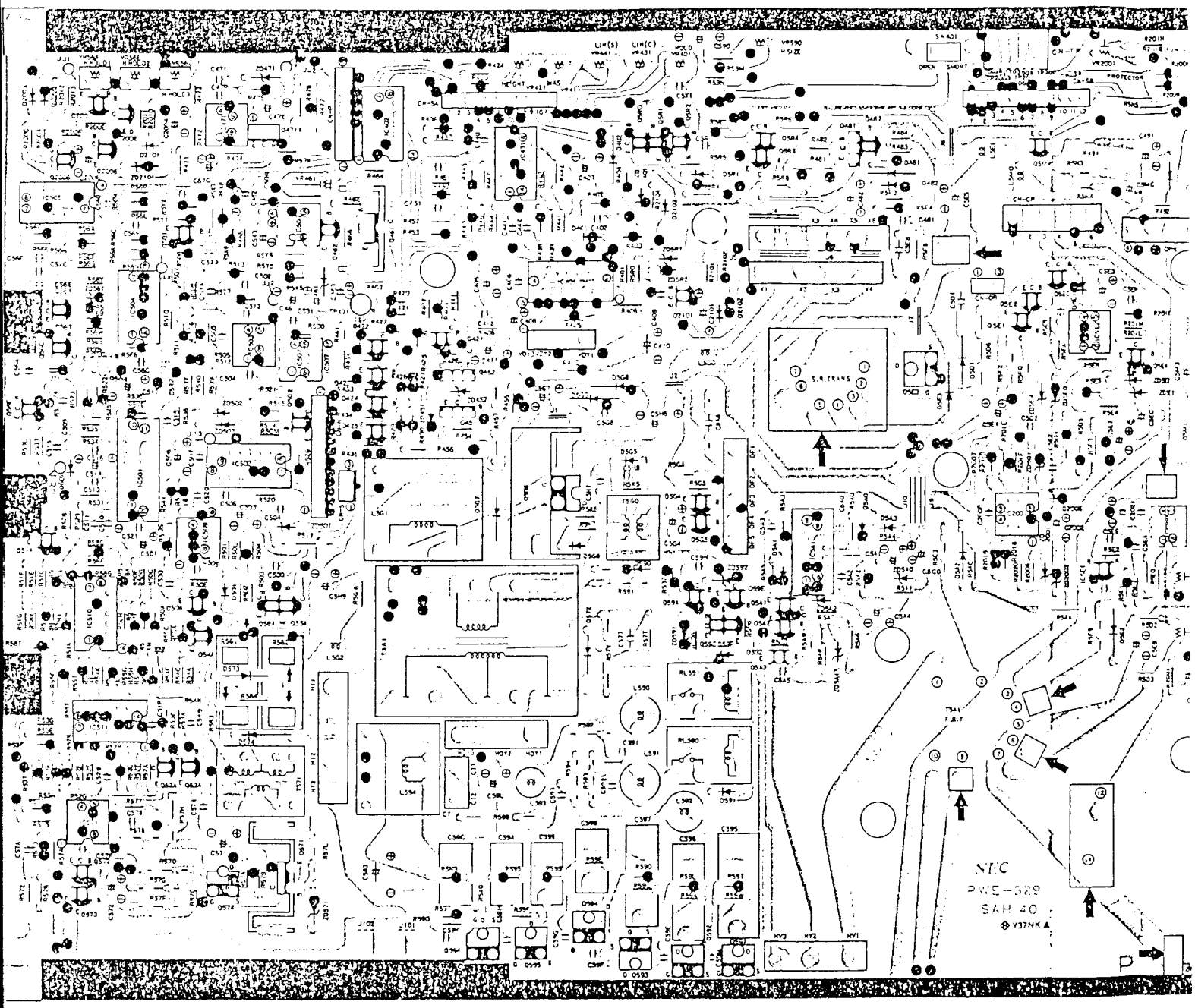


MB(EE)/UMR/JC1742UMA
URAM



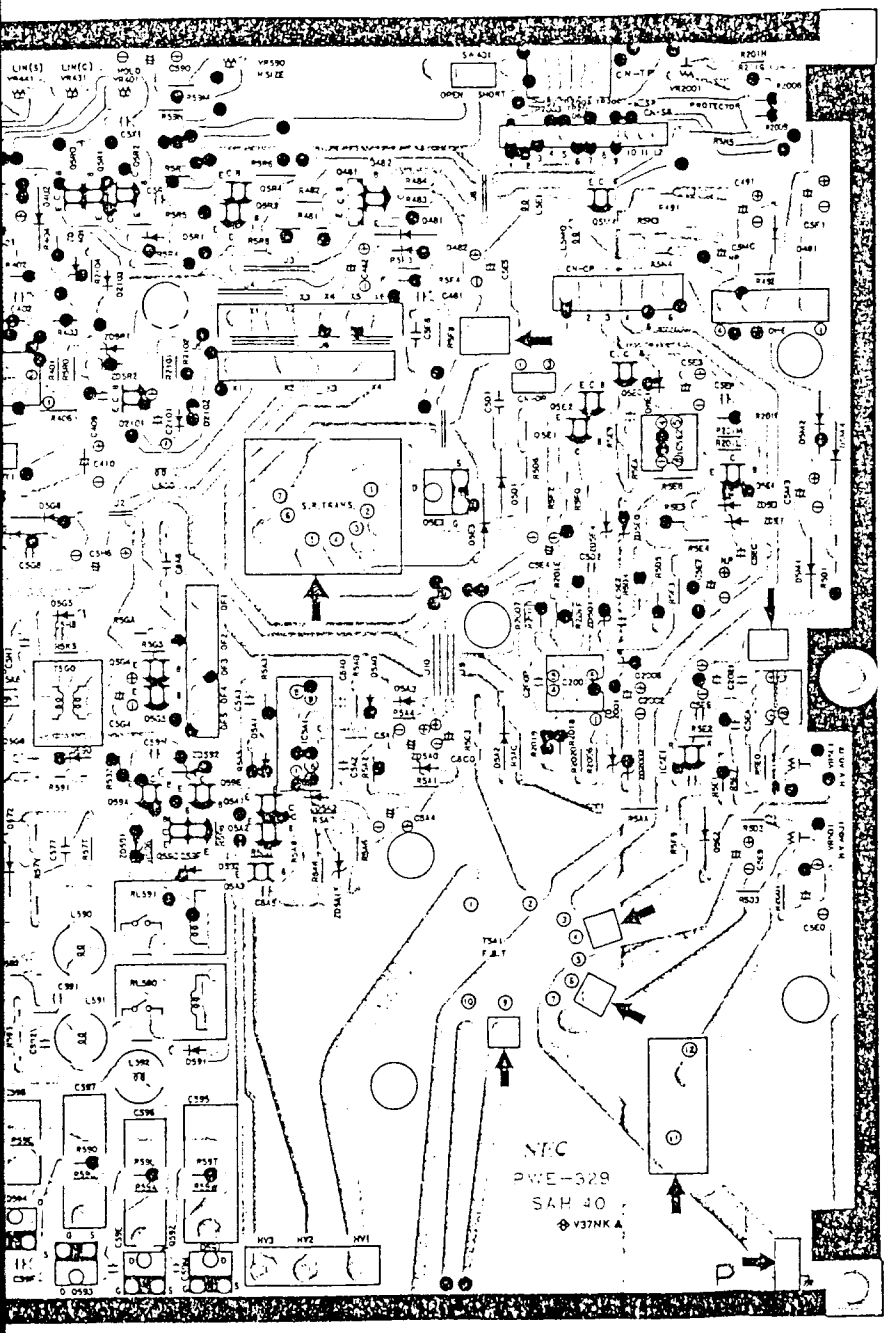

IC5G1
IC5G0
IC5G1
IC5G0
Q5G1
2SA933S
Q5G2
2SC1740S
Q5G0
DTC114ES
AA1A4M
Q5G3
2SA933S
IC5G0
XRA10393 OR
BA10393
IC5G1
μPC3403C

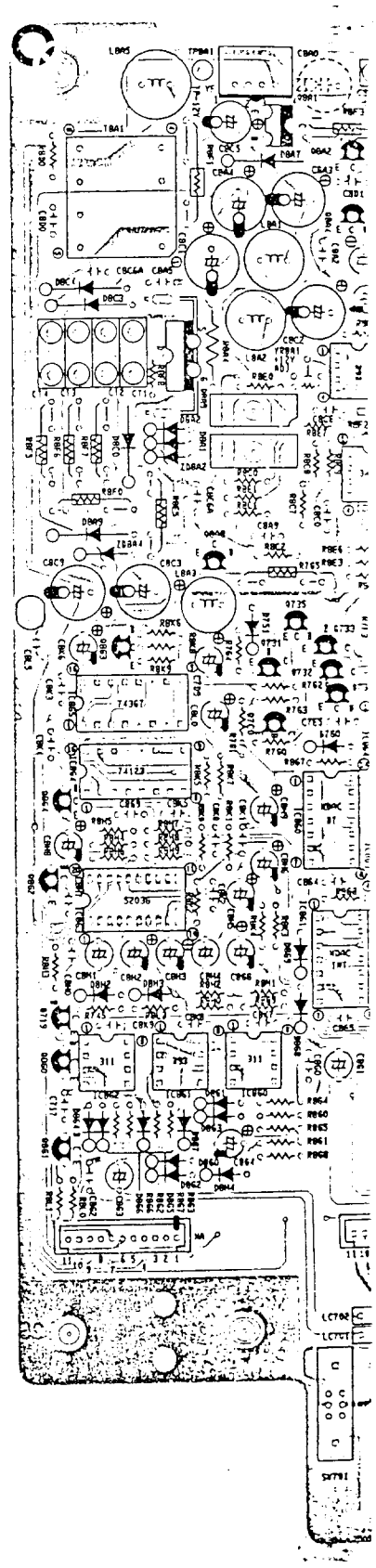

Q5K3
2SK758
Q5K2
2SA933
Q5K1
2SC1740S
PWE 339B
CHP PWB



DEF PWB ASSY (PWE-329)

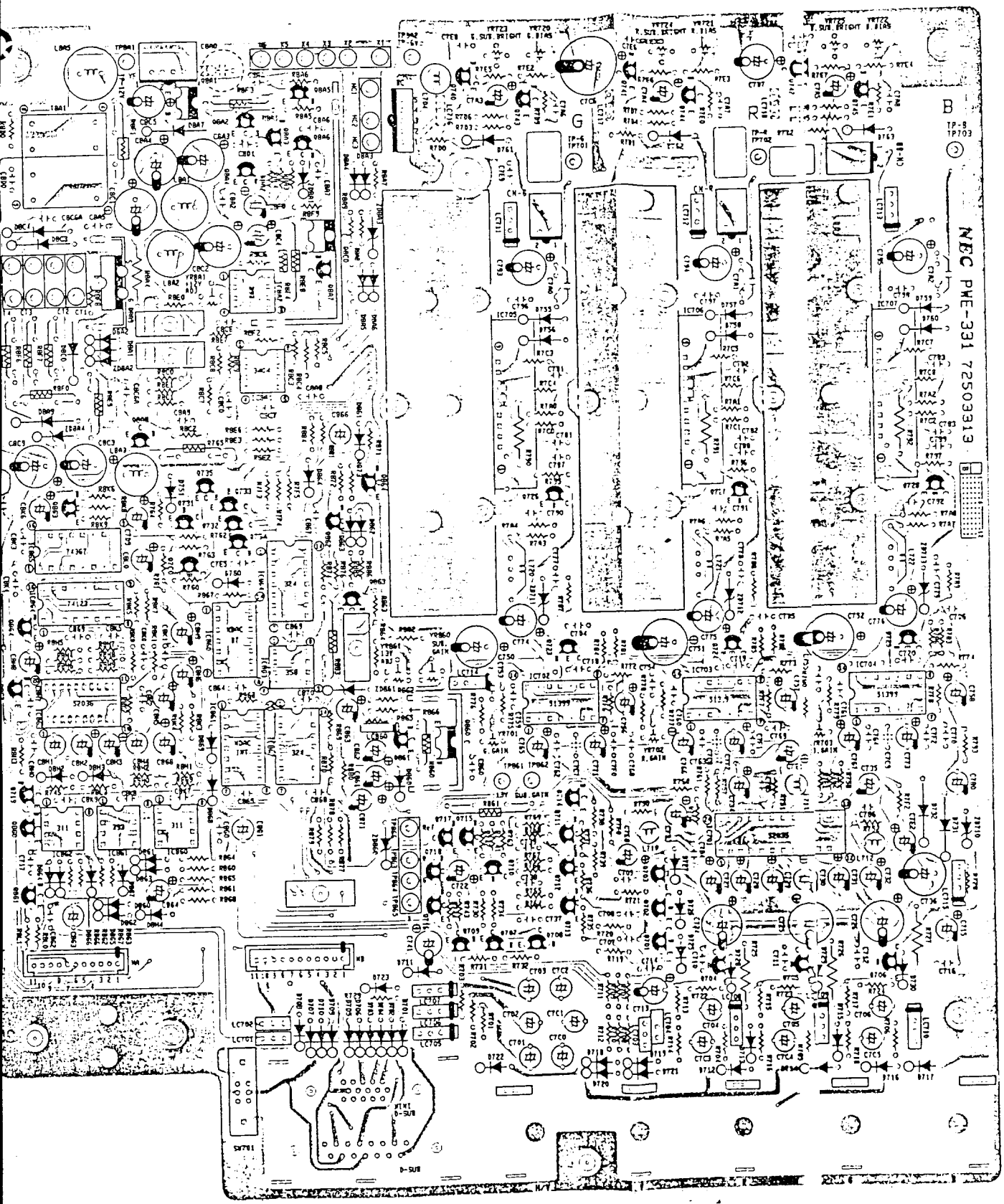
— Solder Side —





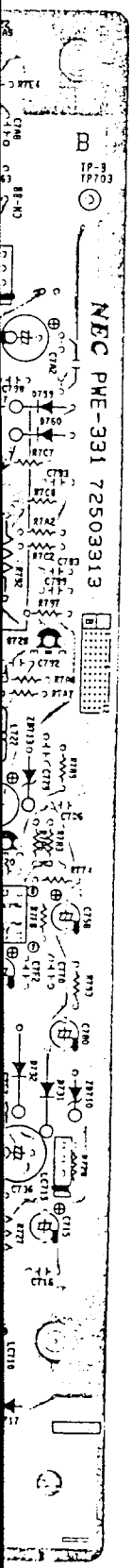
ASSY (PWE-329)

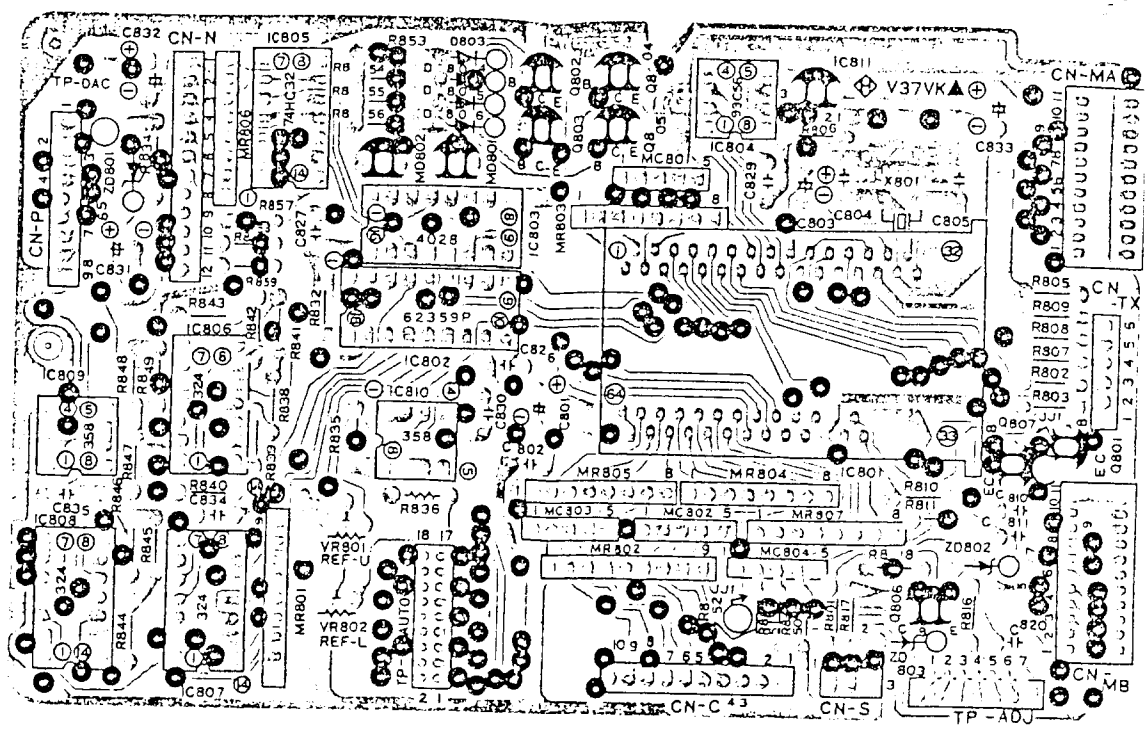
lder Side —



VIDEO PWB ASSY (PWE-331)

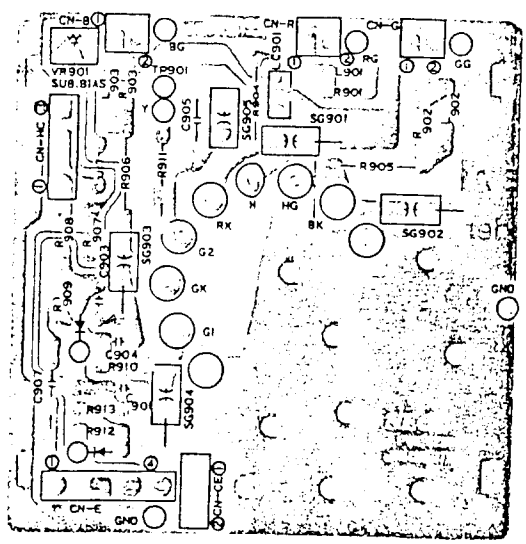
— Component Side —





CPU PWB ASSY (PWE-330)

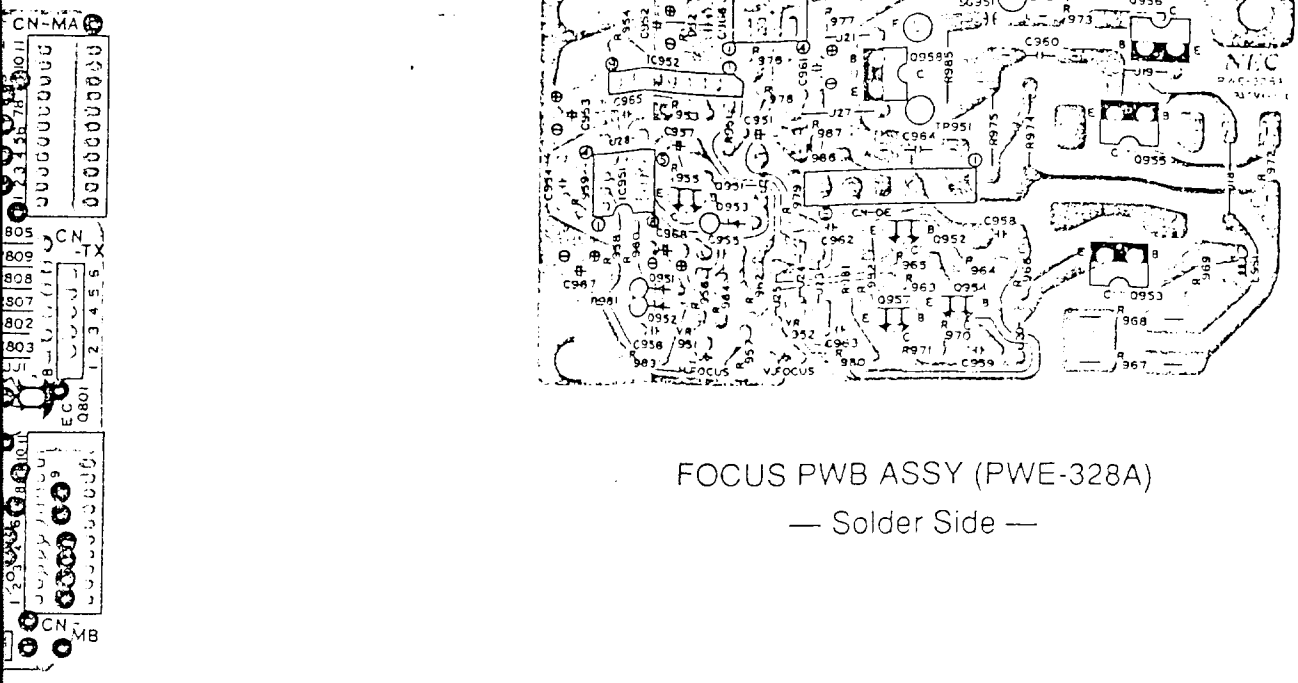
— Solder Side —



CRT PWB ASSY (PWE-328B)

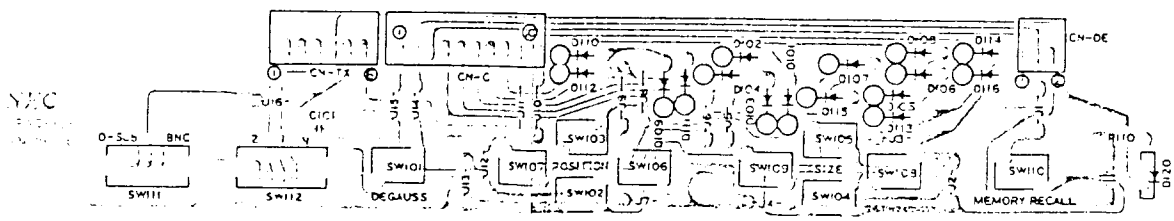
— Solder Side —

RUN No.



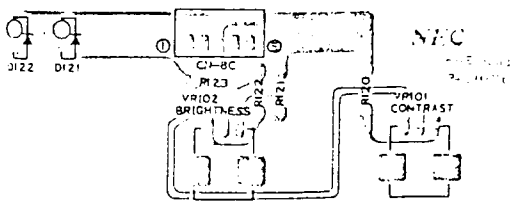
FOCUS PWB ASSY (PWE-328A)

— Solder Side —



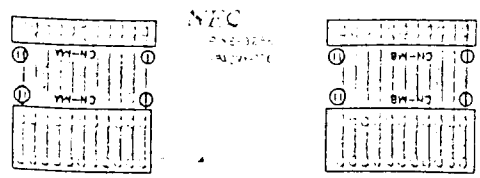
CONTROL PWB ASSY (PWE-328C)

— Solder Side —



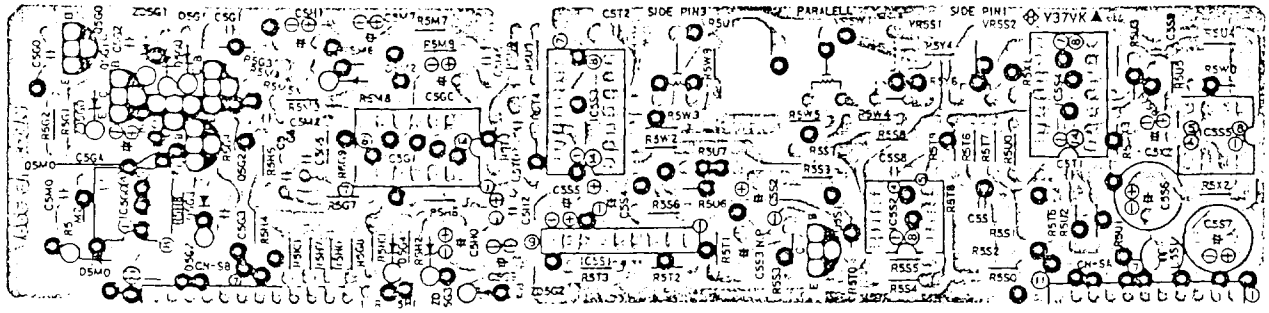
VR PWB ASSY (PWE-328D)

— Solder Side —



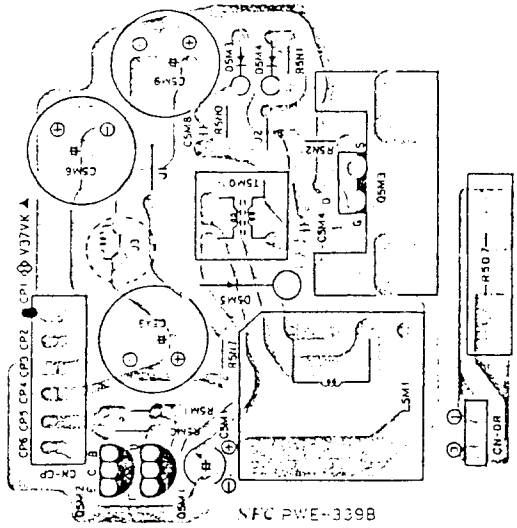
CN PWB ASSY (PWE-328E)

— Solder Side —



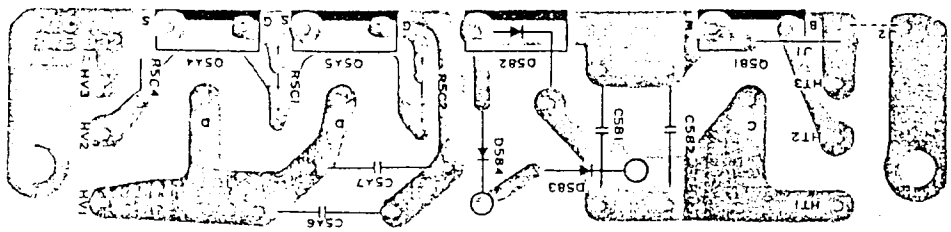
SDP PWB ASSY (PWE-339A)

— Solder Side —



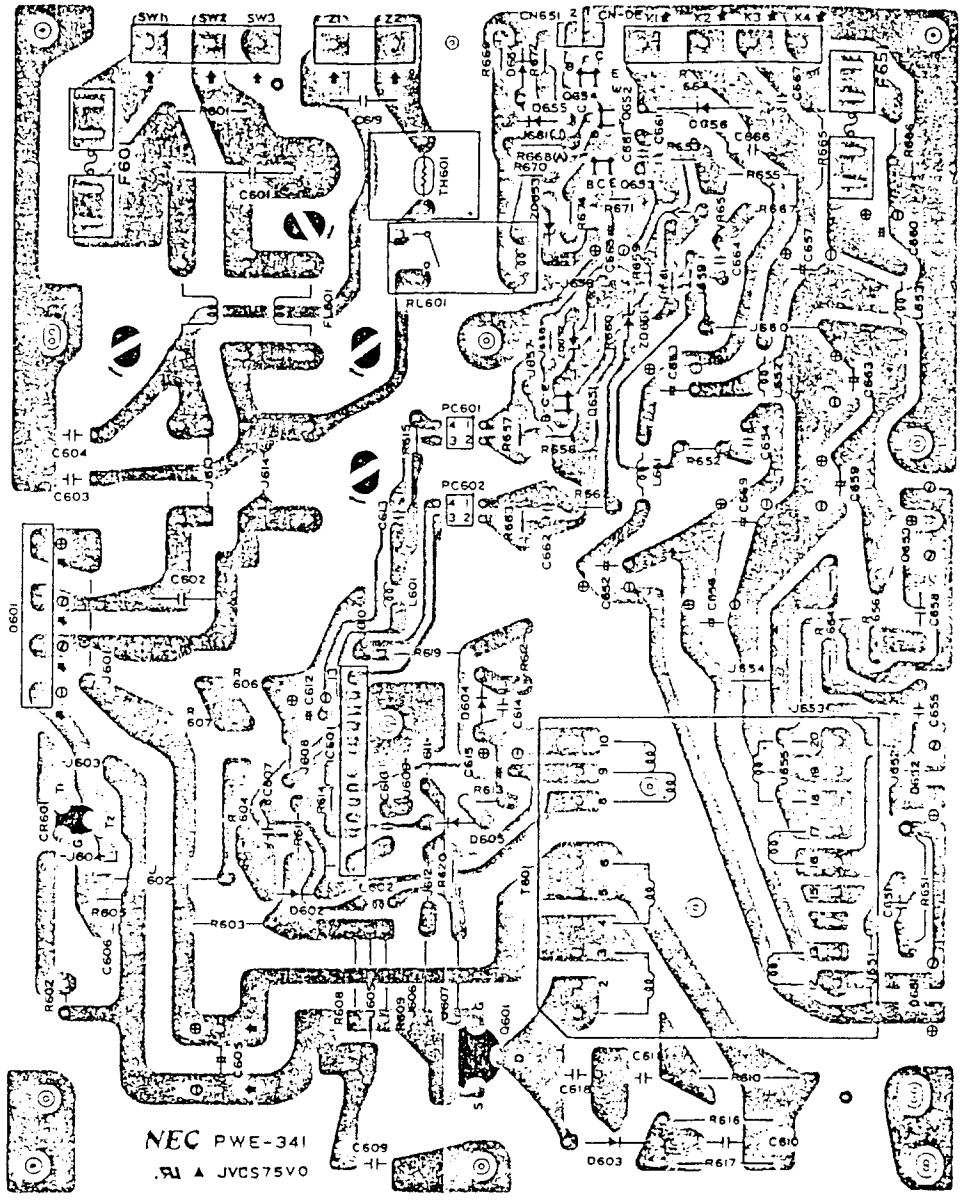
CHP PWB ASSY (PWE-339B)

— Solder Side —



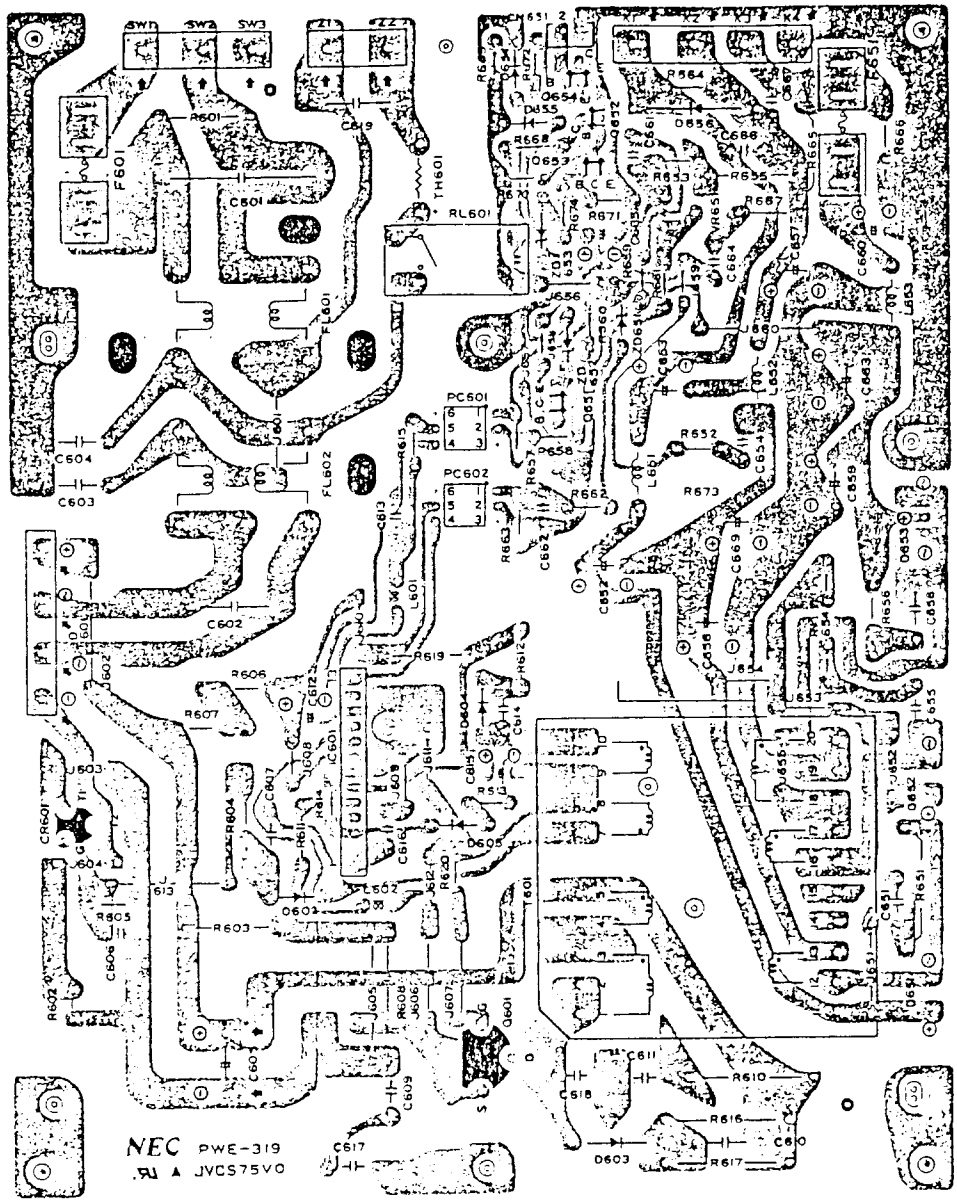
TR PWB ASSY (PWE-332)

— Solder Side —



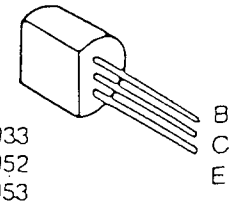
SW REG PWB ASSY (PWE-341)

— Solder Side —



SW REG PWB ASSY (PWE-319)

— Solder Side —



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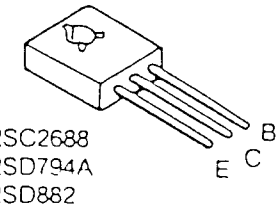
2SA952
2SA953
2SA1018
2SA1767
2SC1473
2SC1841



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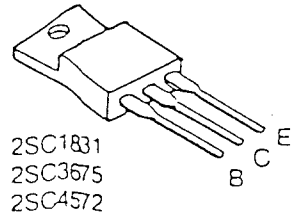
2SD794A
2SD882



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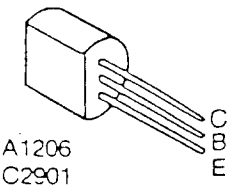

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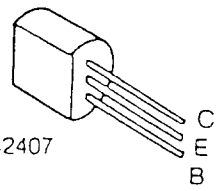

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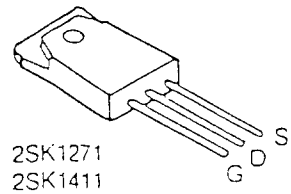

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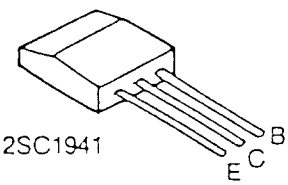
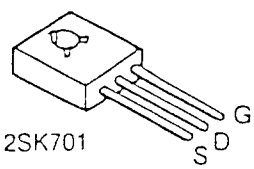


2SC1941



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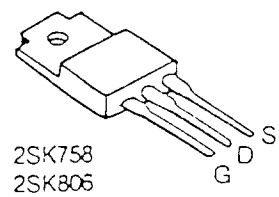

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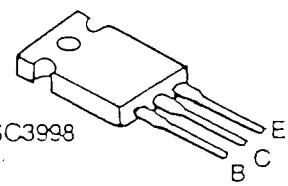
2SK806



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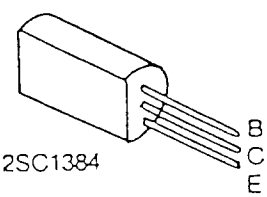

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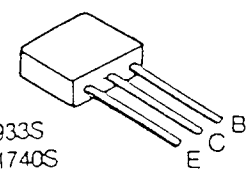

2SA933S
2SC1740S
DTA114ES
DTA143ES
DTA144ES
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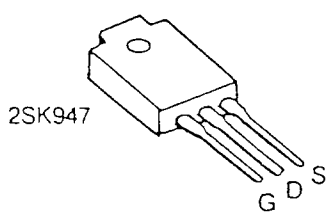
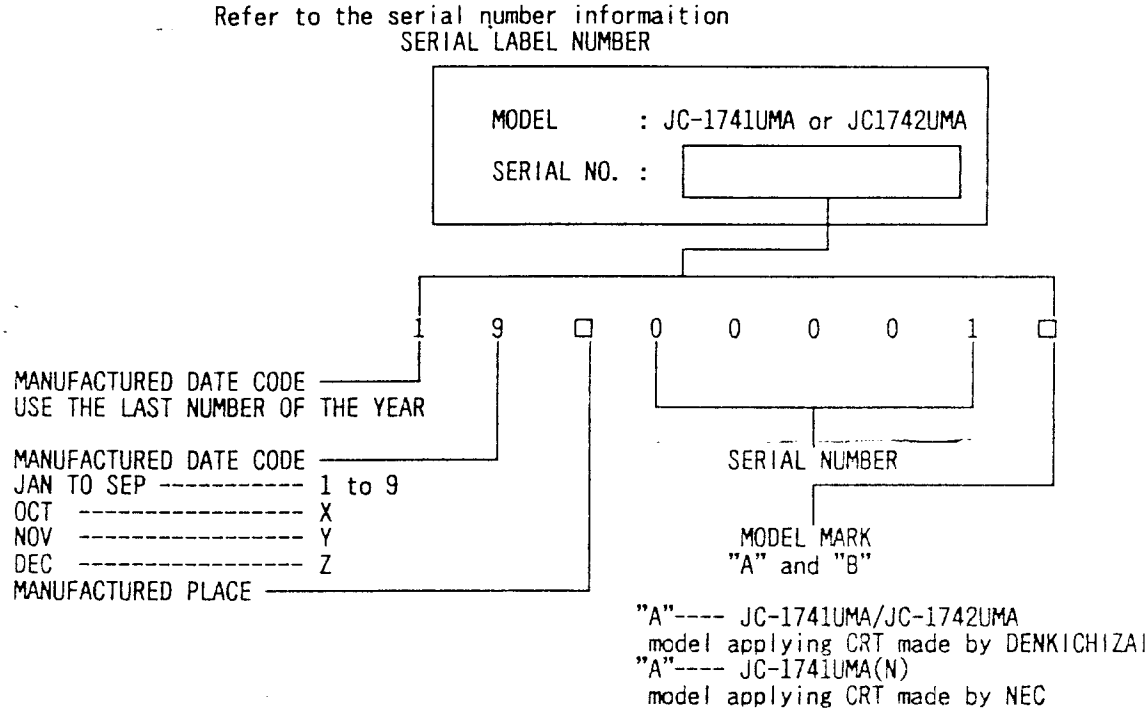
DTC114YS
DTC115ES
DTC123ES
DTC143ES
DTC144ES



2SK947

E: EM
B: BA
C: CO
G: GA
D: DR
S: SO

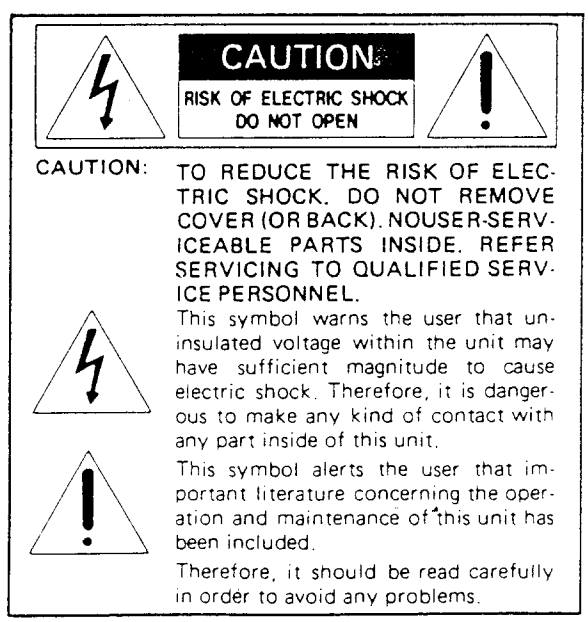
SERIAL NUMBER INFORMATION (JC-1741UMA/JC-1742UMA)


Refer to the serial number informaition
SERIAL LABEL NUMBER
MODEL : JC-1741UMA or JC1742UMA
SERIAL NO. :
1 9 □ 0 0 0 0 1 □
MANUFACTURED DATE CODE
USE THE LAST NUMBER OF THE YEAR
MANUFACTURED DATE CODE
JAN TO SEP ---------- 1 to 9
OCT ---------- X
NOV ---------- Y
DEC ---------- Z
MANUFACTURED PLACE
SERIAL NUMBER
MODEL MARK
"A" and "B"
"A"---- JC-1741UMA/JC-1742UMA
model applying CRT made by DENKICHIZAI
"A"---- JC-1741UMA(N)
model applying CRT made by NEC

JC-1741VMA, (N)/JC-1742UMA ONLY

WARNING

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EZPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXENSION CORD RECEPTACLE OR OTHER OUTLETS, UNLESS THE PRONGS CAN BE FULLY INSERTED.
REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH-VOLTAGE COMPONEBTS INSIDE. REFFER SERVICING TO QUALIFIED SERVICE PERSONNEL.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NOUSER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside of this unit.
This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included.
Therefore, it should be read carefully in order to avoid any problems.